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TELEPHONE NUMBER:  
3617.CENTRAL (3 lines).

Established in  
**ENGLAND, 1859.]**

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,  
LONDON, E.C. 4.

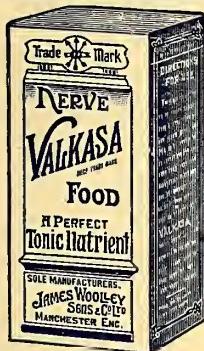
TELEGRAPHIC ADDRESS:  
"CHEMICS, CANNON, LONDON."  
[Charged as two words only.]

Established in  
**[AUSTRALASIA, 1885.]**

No. 1,949. Vol. LXXXIX.

JUNE 2, 1917.

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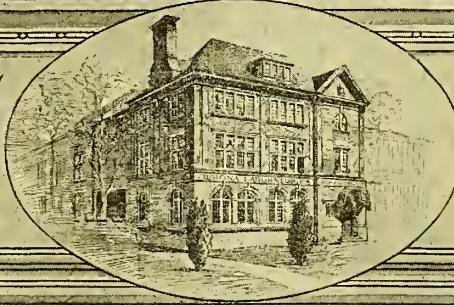
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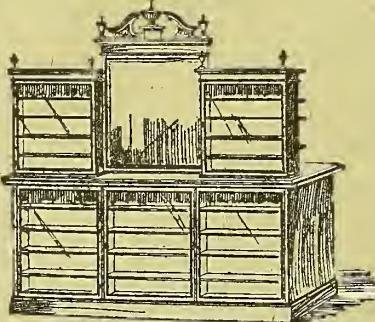
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With 4 dozen (carr. paid) a bonus of 6 extra sent free for counter display (net cost about 9 $\frac{1}{4}$ d.) and retails at 1/3 P.A.T.A., about 64 % profit. Smart counter display cases, ample supply of free samples and attractive Showcards, Window Bills, &c.

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**MAURICE SMITH & CO.,**  
Manufacturing Chemists, KIDDERMINSTER.

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**MAARSSEN**

QUININE and QUININE SALTS.

Fully answering requirements of B.P. and other Pharmacopœias, Unexcelled in Uniformity of Quality, Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,  
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Send us a stamped addressed envelope, and we'll do the rest.

ACTIONS SPEAK LOUDER  
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## MODEL AEROPLANES

Just the things for the summer months. To retail from 1<sup>l</sup> 6 each upwards. Sample half-dozen, carriage paid, 6/6. Also Model Engine Fittings, etc. Write for list.

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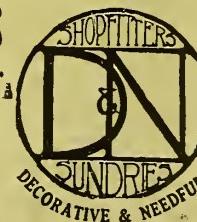
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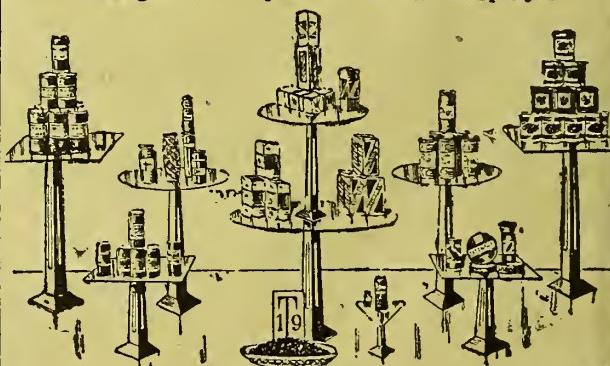


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No. 117. Window Set, consisting of 2 27 in., 1 24 in., 2 18 in., 3 12 in., 2 9 in., polished oak pedestals ; 2 18 in. by 12 in. plates, oblong ; 2 18 in. by 12 in. oval ; 1 16 in. by 10 in. oval ; 1 24 in. by 18 in., 2 16 in. by 10 in. oblong ; 2 12 in. by 12 in. angle plates.

71/- Complete.

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Terpineol  
Terpine Hydrate  
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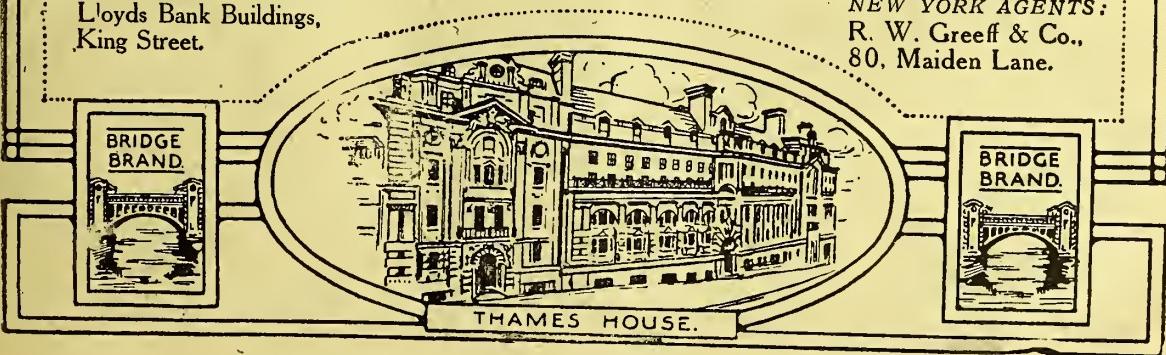
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Guaranteed to exactly conform to B.P. tests.

RECOMMENDED AND ADOPTED BY THE HIGHEST MEDICAL AUTHORITIES.

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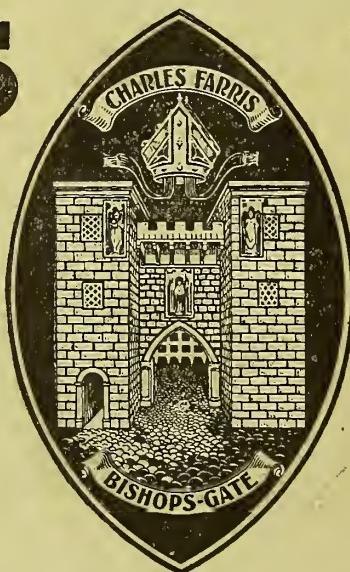
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NUMBER 294

JUNE 2, 1917

GABLES  
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LONDON  
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EDITION

**Maw's Dage**

# The Pure Milk Problem and the Future of the Race.

NATIONAL SERVICE FOR PHARMACISTS.

With the arrival of warmer weather, the ever-present problem of feeding babies by artificial means becomes more acute. We have long recognised the need of an efficient Milk Sterilizer, and in Maw's "Eugenic" pattern is incorporated every improvement which research and science have proved to be practicable. The simplicity of the

## SPECIAL NOTICE.

Only Maw's "Eugenic" Sterilizer is fitted with the finest bottles on the market. They are guaranteed to stand any heat. Spare bottles, 10 oz. graduated, 10/- doz. (one size only).

Any quantity can now be supplied from stock.

MAWS  
“EUGENIC”  
MILK  
STERILIZER

CAP REG<sup>D</sup> N<sup>o</sup> 655685.  
CRUET REG<sup>D</sup> N<sup>o</sup> 657301.

TWO SIZES:  
6 BOTTLES, 10-OZ.  
11/6 EACH.  
10 BOTTLES, 10-OZ.  
15/- EACH.

# HOOKER'S MALTED MILK

"A complete food." — *Lancet.*

**SELLS ENTIRELY ON MERIT.**

*There is no Higher Quality or Better Value*

**BRITISH MADE & BRITISH OWNED**

DEMAND RAPIDLY INCREASING.

**LARGE PROFITS TO SELLERS.**

PRICES AND TERMS FROM

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T. M., Reg.

**For all Disorders of  
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**N**UTRITION needed for nerves in neurasthenia and nervous debility in these nerve-wearing and distracting times is amply supplied by SANAPHOS, which is not a one-constituent food, but is replete in tissue-repairing and energy-giving constituents.

These are supported by the phospho-nucleins and other organic phosphorus compounds, enzymes and vitamin which ensure assimilation and repair, restoring to the organism tone, nerve fitness and vigour.

SANAPHOS has an attractive milk-like flavour and is soluble. Patients take it readily, and it has given most valuable results in all debilitated conditions, restlessness, insomnia, and helps in a very striking way in bringing those weakened by illness back to strength.

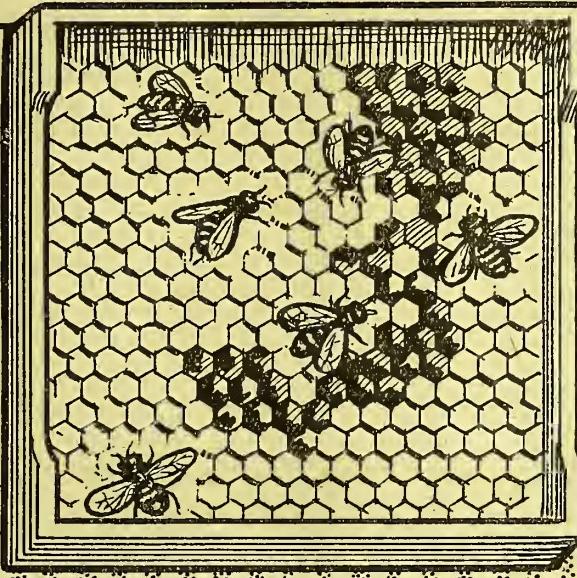
**Sanaphos is and always has been  
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SANAPHOS is procurable at fixed prices from all Chemists and Stores throughout the world.

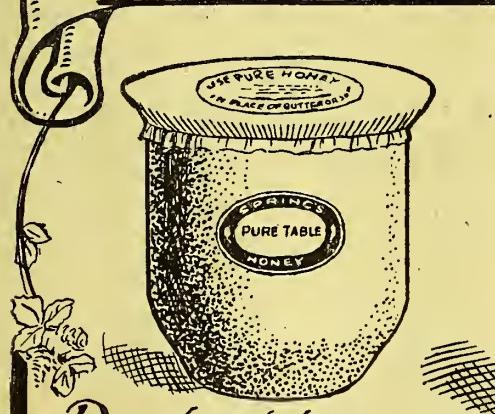
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**DIRECT FROM THE COMB  
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Packed by  
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**BRIGG, LINCS**

THE LARGEST PACKERS OF HONEY IN GREAT BRITAIN.  
Contractors to His Majesty's Government. ---

An Ideal  
Food

**SELLS  
AT  
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**To Chemists**  
and  
**Drysalters !**

Specially packed in  
1 cwt. kegs for use in  
Cough Syrups, and  
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prices on application.

Also attractively  
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trade in  $\frac{1}{2}$ -lb. and 1-lb.  
glasses, old-fashioned  
crocks, 1-lb. tins, &c.

**In Great  
Demand**

**SMART**

LABELS  
AND  
**CARTONS**

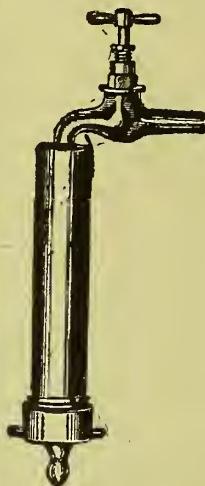
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*Specially for Chemists.*

Full Set of Samples to Colonies charged  
10/6, which amount we credit for  
Order of £5 and upwards.

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Medical Printers,  
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# PURE DRINKING WATER.



## The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT  
STATEMENT:

Wherever the PASTEUR  
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disappeared.

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SOLE MAKERS:

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There is no better  
Flask made than the

## “ALL BRITISH” VACUUM FLASK,

of which not only the protective  
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MADE IN ENGLAND.

SOLE MAKERS—

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# LIQUID GLUCOSE

SO<sub>2</sub> Free.

NO BLUEING USED.

Specially pure for  
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THE  
**MANBRÉ SACCHARINE**  
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specialise in the manufacture of the following articles at the lowest prices :

## Shaving Stick Cases

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for Powder Tins, Cruets,  
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for Dentifrices, Soap Tablets, etc.

## Ferrules

for Walking Sticks, Whips,  
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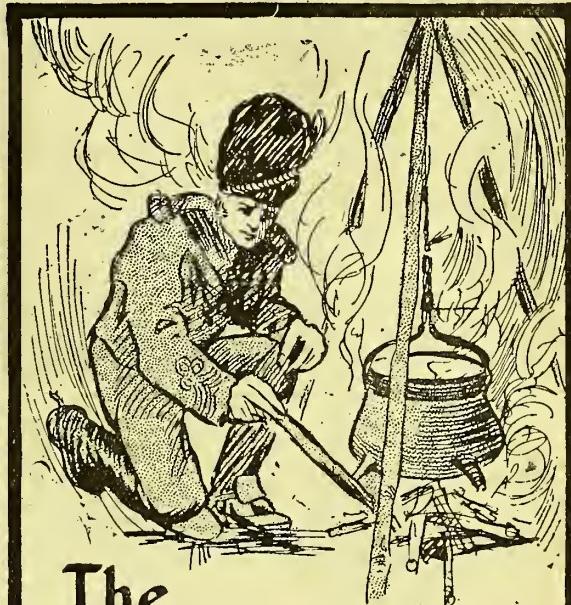
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in any of the following metals :  
Brass, Copper or White-metal  
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Aluminium and Jewellers' Metal  
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*During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.*

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When the British last fought in Flanders they depended on gipsy fires for hot food—or went without. Now they use THERMOS Bottles, Food Jars, and Jugs, and are sure of a hot drink or meal on or off duty. Supply the Soldiers and the Sailors through their friends with the genuine

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**FOR SHAPELINESS  
AND BRILLIANCE  
even the  
**FULL MOON**  
is eclipsed by a  
**SEMREH**  
BOTTLE CAP.  
In pure white  
and in colours.  
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THE VISCOSÉ  
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FOR THE HAIR.  
is sold in all parts of the  
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Sales run into millions  
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1d. Line, 1½ doz. cards 8/- gross.  
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**KOLENE**  
has a rapidly increasing SALE.  
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**FLYDOOMO AIRSHIP FLY BAND**  
A wide band sticky on both sides, unravelling like a blind.  
Proprietors of **FLYDOOMO**—  
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**Jno. H. Smith & Co.**  
NEWARK-ON-TRENT.

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**TRUE FLYCATCHERS!**

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By Royal Warrant of Appointment  
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**LARGEST SALE IN THE WORLD.**



## DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

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Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

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The Ewe Drench for Ewes, 3/6 per doz.

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WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM

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# Petroleum Jelly

White, Yellow, Amber,  
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Pharmaceutical and  
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**MEADE - KING, ROBINSON & CO.**  
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## **Salvo Petrolia** the perfection of Petroleum Jelly

in qualities, white, lemon, yellow  
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Other Grades  
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BRITAIN'S FAVOURITE AND  
MOST REFRESHING PERFUME

This fine quality perfume can also be supplied in bulk, also in  $\frac{1}{4}$ ,  $\frac{1}{2}$ , or 1 lb. bottles.



Terms,  
samples  
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all  
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is blended from an original formula, and packed in attractive Bottles and Boxes at the following Wholesale Prices:—

2 oz. @ **17/-** per doz. bottles

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ON P.A.T.A. LIST. SHOWCARDS FREE.

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"Columbia" Natural  
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HAIR CREAM



Make your  
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In bottles, 8d.  
each, in separate  
neat car-

ons, with suit-

able brush.

These Dyes  
are a distinct  
invention,  
dyeing the  
straw without  
an objectionable  
varnished  
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and producing  
the effect  
of new goods.

8d  
NO GLOSS. NO POLISH.  
On the P.A.T.A.  
WRITE FOR TERMS, PATTERNS,  
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DYE

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Cable Address—*"MAGLAUR."*

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We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

## LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,  
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INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
" "	1/2	10/-
bottles in cartons } 1/6		12/-

\*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

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A valuable emollient medicated skin soap, 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



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"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

1. "Cartons containing 4 Cubes.

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Dainties, Boisseliers  
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GOOD  
PROFITS  
are made by selling  
TITTERTON'S  
CELEBRATED  
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Brushes).

They have a world-wide reputation  
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Illustrated Catalogue on application.

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Brush Manufacturers,  
8 & 10 Great Titchfield St., London, W.

"IT'S ALL IN THE EDGE."

# Safety Razor Blades • RE-SHARPENED.

Any  
Style.

**6d.**  
per  
doz.

Returned  
post free  
same day.

Honed; Stropped, and Finished  
by the latest machinery.

**SATISFACTION GUARANTEED.**

**William P. Kelland**  
**36 Camomile St., London, E.C.**

AND AT

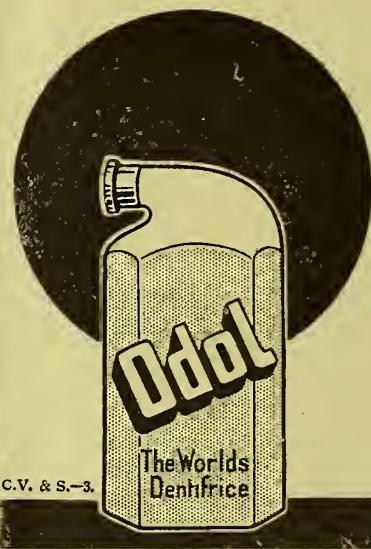
LIVERPOOL . . . 38 Church Street.  
BIRMINGHAM . . . 36 Cannon Street.  
SHEFFIELD . . . 119 Wentworth Street.

P.S.—Send Blades to the nearest depot.

"PROFIT WITH ECONOMY."

(2)

# BRITISH NOW



Send for  
Price List and  
Trading Terms.

**ODOL**  
Chemical Works,  
BERKHAMSTED.

C.V. & S.-3.

# D<sup>R</sup>. EVAN WILLIAMS'



# HENNA SHAMPOO

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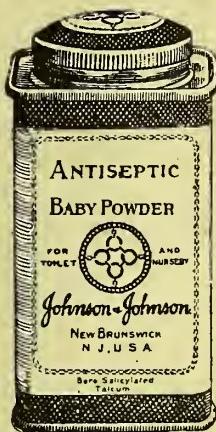
THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.



## ANTISEPTIC BABY POWDER

MANUFACTURED BY

*Johnson & Johnson.*

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

### WARNING.

The contents cannot be imitated, and the Trade Mark cannot be imitated ; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

Look for the Name and Trade Mark



JOHN TIMPSON & CO., Ltd.,  
104 Golden Lane,  
LONDON, E.C.

A powerful antiseptic and deodorant.

## "PETAL DUST" REGD.

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "PETAL DUST" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

**Retails in 3d. and 6d. packets**

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS—

**THE ROSMARINE MANUFACTURING COMPANY,**  
**STAMFORD STREET, LONDON, S.E.**

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

# THE DIGESTIVE FERMENTS CO.

DETROIT, U.S.A.

## BACTOPEPTONE

Acknowledged to be the best and most reliable Peptone for Bacteriological use.

DIASTASE	HÆMOGLOBIN
PANCREATIN	OX GALL
PEPSIN	SODIUM CHOLATE
TRYPSIN	„ GLYCOCHOLATE

ORGANO-THERAPEUTIC PRODUCTS  
OVARIAN, THYMUS & THYROID SUBSTANCES, &c.

Address inquiries, orders, &c., to  
MAY & BAKER, LTD., BATTERSEA, LONDON, S.W.

# CASEIN

ALIMENTARY AND INDUSTRIAL

Dairy Produce Importers.  
**NIEUWHOF, SURIE & CO., LTD.**

Office : 5 LLOYD'S AVENUE, LONDON, E.C.  
Works & Warehouses : 9 ALDCATE AVENUE, LONDON, E.  
TELEPHONES : AVENUE 34 & 35  
TELEGRAMS : "SURICODON, LONDON."

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.  
FOR QUOTATIONS apply to—

**PRESTON'S LIVERPOOL DISTILLERY CO., LTD.**

The Largest Makers in the Kingdom.  
**BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL.** Office : 4 India B'ngs, Water St., Liverpool.

## EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content ... ... ... 70/80 %  
Optical Rotation ... ... ... 0 to 1  
Specific Gravity ... ... ... .919 to .928  
Also Utely Free from Phellandrene.

Quotations by cable. Wholesale Trade only.

**BURNSIDE & COMPANY**

Eucalyptus Oil Distillers,

**VICTORIA, AUSTRALIA.**

New Postal Address—  
439 Flinders Lane, Melbourne.

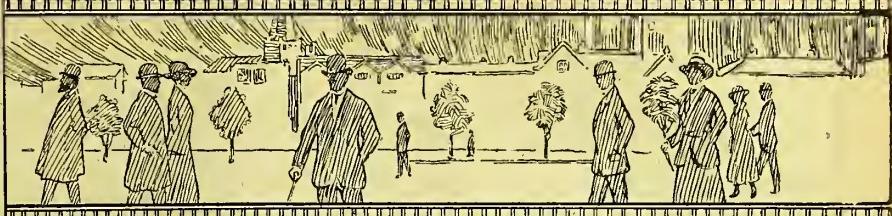
Cables—"Burnside Company,  
Melbourne."

## RADIUM COMPOUND. SELF-LUMINOUS.

Highest Possible Efficiency, Durability & Value.

As supplied to H.M. Government, &c.  
Guaranteed to pass N.P.L. requirements.  
All Grades in stock, from 15/- per gram.  
RADIIUM SALTS TESTED AND CERTIFIED.

**F. HARRISON GLEW, THE RADIUM LABORATORY**  
156 Clapham Road, London, S.W.



# Ready-made Sales



HE number of mail-order sales of Chocoloids is to us the surest evidence that the Chocoloids advertising campaign is creating "ready-made" sales.

We are looking at the matter from your point of view.

\*\*

Our aim is to get the public to ask their local chemist for Chocoloids—failing this we offer to send a box on receipt of purchase price. The response to our invitation has been gratifying, and each month sees a large increase in both the wholesale figures and in direct

inquiries. We want to turn inquiries over to you.

\*\*

We help you to sell the goods by our extensive advertising, and by supplying with each order a sufficient quantity of showcards and printed matter.

Chocoloid advertising covers the whole of England and Scotland, and appears in the popular magazines, weekly journals, and in daily newspapers.

\*\*

Ensure your share of increased business by ordering a supply of Chocoloids to-day.

# Chocoloids

*Regd.*

## The Cure for Constipation

On the  
P.A.T.A. List



25 %  
Profit.

The undoubtedly efficiency of Chocoloids as a remedy for Constipation and the attractive and sales-making value of our advertising, ensure a good return on any capital invested. Chocoloids sell to the public in handy metal cases at 1/3 and 2/6, and show to the retailer a profit of 25 per cent.

### The Monthly Increase.

April results show 27 per cent. increase on the high figures of March. *Verb. sap.*

Our advertisement in this journal on May 12 stated that the sales of Chocoloids for March more than doubled that of the previous month.

Chocoloids may be obtained from Wholesalers, or from

**THE CHOCOLOID CO.**  
Stirchley Laboratories, Birmingham.

NEEDHAMS Ltd.

## War Prices Protected.

RETAILERS OF  
**JOHN BOND'S**

# "CRYSTAL PALACE" MARKING INK

ARE PROTECTED.

The increase is but small,  $\frac{1}{2}$ d. a Bottle retail, either size, heat or non-heat. Every other domestic commodity has risen more.

The 1/- size protected at 8d. is now protected at 8 $\frac{1}{2}$ d.

The 6d. size protected at 4d. is now protected at 4 $\frac{1}{2}$ d.

THE PROTECTED  
RETAIL PROFIT IS **33 $\frac{1}{3}$ %**

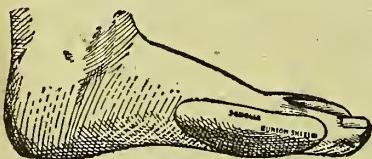
A good minimum profit on the Marking Ink which will always make new Customers.

PRICE LISTS AND TERMS ON APPLICATION.

JOHN BOND (LONDON) LIMITED, 75 SOUTHGATE RD., LONDON, N.1.

Telephone: Dalston 1824.

Telegrams: "Actinic, Kinland, London" (2 words).



SCHOLL'S "BUNION REDUCER," made of pure Para Gum Rubber, gives instant relief by keeping the pressure of the boot from the affected joint. Fits closely to the bunion, shuts out all air, retains the moisture, thus arresting further growth by its reducing action on the tissues. Can be worn in any boots unnoticed; does not shift or bulge. Made in three sizes, small, medium and large, for right and left feet. Retail price, 2/- each. Write for free booklet, "Scientific Correction for Ailments of the Feet."

THE SCHOLL MFG. CO. LTD.,

Largest Makers of Foot Appliances in the World.

1, 2, 3 and 4 GILTSPUR STREET, LONDON, E.C. 1.

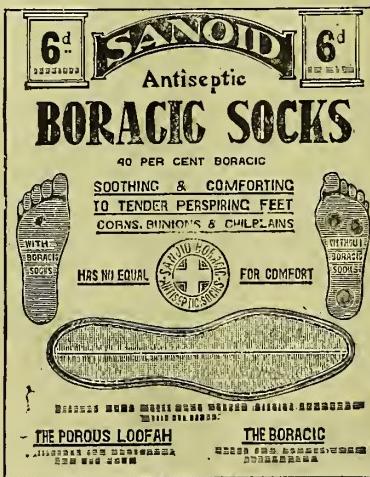
# "SANOID" BORACIC SOCKS

FOR SPRING SALES.

MANY Chemists have enjoyed the ready sale of Boracic Socks, which literally

**SELL  
THEMSELVES**

4/- per dozen pairs.  
46/- per gross pairs.



Now is the time to order, so as to enjoy a share of these

**READY  
SALES**

FREE SAMPLE PAIR  
ON APPLICATION.

**CUXSON, GERRARD & CO., Ltd., OLDBURY  
AND BIRMINGHAM.**

# SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

**JOB BROS.**, Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

And of ST. JOHN'S, N.F.

Tel. 1039 CENTRAL.

Established 1780.

## WE CAN DELIVER PROMPTLY **PASTILLES**—All Varieties.

Bright Coated or Crystallized ... **1/8** per lb.  
Packed in free 4-lb. tins or boxes.

ALSO IN

1-oz. tins at **2/6** doz.; 2-oz. tins, **4/-** doz.;  
4-oz. tins, **7/6** doz.

## **CAPSULES.** Per 1000. Boxes of 24.

Santal Oil, 10 m. ....	<b>75/-</b>	... <b>24/6</b> doz.
" " 10 drops ....	<b>60/-</b>	... <b>20/-</b> doz.
		Boxes of 36.
Copaiba Balsam 10 m. ....	<b>11/6</b>	... <b>6/6</b> doz.

## **SACCHARINE TABLETS**

$\frac{1}{2}$  gr. 330 in. 1.

Per lb. ....	<b>96/-</b>	Cash with Order.
100's ....	<b>18/-</b> doz.	
200's ....	<b>35/6</b> doz.	
500's ....	<b>88/-</b> doz.	

## **JULES DENOUAL & CO.**

Carlton Works, ASYLUM ROAD, S.E. 15.

## **Shaving Sticks.**

### **ALL BRITISH.**

**Good Design and Quality.**

**"AVONA,"** Cartoned, **30/-** gross.

**"CREAM OF ROSES,"** Decorated Tin in four colours, Rose design on Cream ground, **60/-** gross.

**ALUMINIUM HOLDER AND FINGER PROTECTOR** . **90/-** gross.

**TABLET,** Cartoned . **30/-** gross.

Sample of each for stamps **1/6.**

## **STOKES & CO., LTD.**

31/35 Lower Castle St., BRISTOL.

# Aquaperia

(Harrogate)



The Chemists'  
Aperient Mineral Water,

supplants Hunyadi Janos,  
Apenta and enemy waters of  
similar character.

Bottled and Standardised by CAMWAL Ltd.  
at their spring,

## HARROGATE.

### ALTERATION IN PRICES.

**8/- per Doz.      7/6 per Doz. in 6 Doz. lots.**

*Carriage Paid on 2 dozen and upwards.*

Minimum Retail Prices to the Public, 1/- per Bottle (P.A.T.A.)

*1/6 per doz. allowed for empty bottles returned Carriage Paid to our Factories.*

**SPECIAL ALLOWANCE  
FOR WINDOW DISPLAYS.**

P.A.T.A.

Of all Wholesale Houses, and

**CAMWAL Ltd.**

Harrogate, Manchester,  
Birmingham, Bristol,  
Mitcham, London,  
and Depots.

# Important Notice

## AS ANNOUNCED

in the Protected List of THE P.A.T.A.  
for April, 1917, the Minimum Retail Selling Price of

# Kutnow's Powder

WILL BE **2/9** PER BOTTLE  
(FACE VALUE) FROM MAY 1st, 1917.

This will give a considerable increase of profit to chemists, but Messrs. KUTNOW are keeping to their wholesale price, as hitherto, in spite of the enormous rises in the prices of all the materials, bottles and everything else in connection with the manufacture of KUTNOW'S POWDER. In view of the above facts, Messrs. KUTNOW trust that both the wholesale and retail trade will co-operate with them in creating a still greater demand for KUTNOW'S POWDER, and that no substitutes for KUTNOW'S POWDER will be offered to the public in future.

## Replenish your Stock

ORDER A FRESH SUPPLY

of KUTNOW'S POWDER at once, and send the adjoining Coupon for Showcards and Counter Bills, which will be forwarded Carriage Paid. A good Window Show of KUTNOW'S POWDER attracts remunerative business. It is well advertised, yields a good profit, and is always satisfactory.

SEND THIS COUPON FOR  
**Showcards and Bills**

To S. KUTNOW & CO. Ltd.  
41 Farringdon Road, London, E.C. 1.

Please send me Showcards and Counter Bills,  
carriage paid.

NAME.....

ADDRESS.....

"Chemist and Druggist," June 2, 1917.

S.KUTNOW & CO. Ltd. 41 Farringdon Rd. London, E.C. 1



# THE FRENCH NATURAL MINERAL WATER. — VICHY-CELESTINS

**DISORDERS of the LIVER, GOUT,  
Diabetes, Rheumatism, Gravel, &c.**

## VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

**CAUTION.**—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

**PROPERTY OF THE FRENCH GOVERNMENT.**

# A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VITUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

## SILVER SALTS

Highest Award for Pharmaceutical Products at Berne, 1914.

Silver Proteinate, Colloidal Silver, Silver Nucleinate, Silver Citrate and Tannin preparations, Tannin Albuminate (Methylendio-Tannin).

LUDY & CO., Chemical Works, Berthoud, Switzerland.

Stocks held in London by the Sole Agents—

THE CENTRAL EXPORT BUREAU, Trafalgar Bldgs., 1 Charing Cross, W.C.

Phone: Gerrard 3458.

## FINEST QUALITY MILK POWDER. CASEIN.

Inquiries and Orders Solicited.

PRIDEAUX'S LTD., DEPT. C, MOTCOMBE, DORSET

LONDON OFFICE :

10 HOP EXCHANGE, Southwark Street, S.E.

# WINGARNIS

**Sells readily ALL the time.**

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

**IMPORTANT NOTE  
TO CHEMISTS  
WITHOUT LICENCES**

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

## The Customer went out

He was in a hurry and could not wait whilst the assistant, single-handed at the time, weighed up a number of small quantities of photographic chemicals for another customer.

It is tantalising to lose business in that manner. But waiting is intolerable to most people, whilst prompt attention pleases everybody.

One of the great advantages of selling

TRADE  
MARK **'TABLOID'** BRAND

### Photographic Chemicals

is that other customers are not kept waiting and no business is lost.

Simply hand the package over.

Practically all requirements can be met with 'TABLOID' Photographic Products. Place a selection on your counter so that it catches the customer's eye and arrests his attention at once, and the products will sell themselves. Their reliability is proverbial.

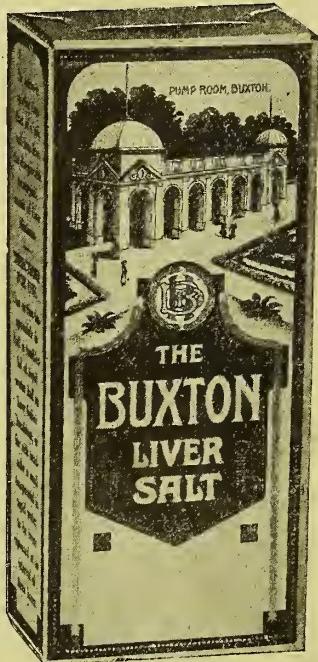


BURROUGHS WELLCOME & CO., LONDON

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# THE BRITISH DRUG HOUSES LTD.

B.D.H.



## BUXTON LIVER SALT

PRESENTING ALL THE ESSENTIALS  
OF THE FAMOUS SPRING.

CONTAINS NO SUGAR.

8 fl. oz.  
**14/- per doz.**

P.A.T.A. MIN. RETAIL PRICE, 1/9.

A Buxton Physician writes :—

*"I consider your Buxton Liver Salt the best of all the Saline Preparations in use. It is safe, efficient and agreeable. In quality and chemical constitution it is far superior to any other."*

OWN NAME FREE ON  
1 DOZEN LOTS AND UPWARDS



22-30 Graham Street, City Road, LONDON, N.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.

ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

#### SUBSCRIPTION RATES.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цена на еженедельный журнал с приложением Годового Дневника—12 шиллингов в пенсовъ на годъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C.4.**

Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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## Coming Events.

### Sunday, June 3.

Pharmacists' Volunteer Corps, Imperial College Union, London, at 10 A.M. Parade. Drills will also take place on June 6 and 7 at 3 P.M. On June 5 there will be a lecture at 8.45 P.M. on "Musketry for Officers."

### Monday, June 4.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M. Mr. H. M. Ridge on "The Utilisation of the Sulphur Contained in Zinc Ore"; Mr. G. S. Robertson, M.Sc., on "The Rate of Reversion of Mixtures of Superphosphate with Basic Slag and Rock Phosphates"; and Dr. P. E. Speilmann and Mr. G. Campbell Petrie, A.I.C., "Some Observations on Crude (Coke-oven) Benzoles."

### Wednesday, June 6.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

### Thursday, June 7.

Chemical Society, Burlington House, Piccadilly London, W., at 8 P.M. Ordinary meeting. Among the papers to be presented are: "On the Determination of Ozone and Oxides of Nitrogen in the Atmosphere," by Messrs. F. L. Usher and B. S. Rao; "Thiocarbamide and Esters," by Mr. J. Taylor; and "The Exact Determination of Morphine in Complex Mixtures," by Mr. A. Tingle.

Great Yarmouth Pharmaceutical Association, at 8.30 P.M. Monthly meeting.

### Friday, June 8.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5.30 P.M. Professor Sir J. J. Thomson on "Industrial Applications of Electrons."

## European War News.

### Import and Export Notices.

**SWEDEN.**—The following articles have been added to the list of goods which are now prohibited for exportation from Sweden to all countries and also in transit through Sweden: Fusel oil, in casks and other vessels of any size; quillaia-bark; celluloid, celloidin, galalith, ambroin, eburi, and other similar artificial plastic materials not specially mentioned; carnauba wax, palm wax, and other vegetable wax; varnish; disinfectants containing soap, such as lysol and creolin; formic acid, lactic acid, oxalic acid, and oxalates of potassium, sodium, and ammonia; tartar and seignette salts and other tartrates of potassium, sodium, and ammonia; chrome oxide and acetate; quicksilver, and alloys thereof; carbondum and other carbides; benzol oils, carbolic acid, cresol, naphthaline, creosote oil, carbolineum, and other similar products of the distillation of coal-tar, also carbolic lime; resin, turpentine, and other natural balsams; formalin in aqueous solution; paints and colours, even if dry, prepared with other base oil; collodion; microscopes and parts thereof; scales for analysts and chemists.

### Pre-War Contracts Committee.

The Secretary of the Pre-War Contracts Committee announces that the Committee, under the chairmanship of Lord Buckmaster, which has been appointed by the Board of Trade "to consider and report on the position of British manufacturers and merchants after the war, in respect of contracts entered into by them prior to the war with persons or companies in the United Kingdom, or in Allied or neutral countries, the fulfilment of which has been prevented or impeded by the war, and as to the measures, if any, which are necessary or desirable in this respect," has begun its sittings and is ready to receive evidence upon the questions which arise under the terms of reference. Those who desire to tender evidence should communicate with the Secretary, Mr. L. F. C. Darby, at the Board of Trade, 7 Whitehall Gardens, London, S.W.1. Where possible such communications should be made through a Chamber of Commerce or Trade Association.

### Personalia.

LIEUTENANT H. C. MABEN, Worcestershire Regiment, son of Mr. T. Maben, F.C.S., was mentioned in Sir Douglas Haig's despatch published last week.

SECOND-LIEUTENANT GRAHAM RICHMOND, 9th Norfolks, son of Councillor A. E. Richmond, pharmacist, Great Yarmouth, has been awarded the Military Cross.

SECOND-LIEUTENANT F. J. HARRIS, eldest son of Mr. F. W. Harris, the Glasgow city analyst, has been mentioned in despatches. He is a Lewis-gun officer, and twenty years of age.

SERGEANT ALFRED SPAIN, who left the employ of Arthur H. Cox & Co., Ltd., of Brighton, to join the Royal Field Artillery early in August 1914, has returned to Brighton on sick leave, having practically recovered from the wounds received during the taking of Vimy Ridge.

MR. GUIDO JUNG, of Fratelli Jung, essential-oil exporters, Palermo, who was recently awarded the Italian bronze medal for valour, has since been decorated by General Milne, Commander-in-Chief of the British Salonica Force, with the British Military Cross for services rendered in reconnaissances carried out jointly with British officers.

MR. S. SHEARER, who has been eight and a-half years on the dispensing staff of the Glasgow Western Infirmary, also dispenser for the last three and a-half years at the Glasgow Royal Cancer Hospital, joined the Colours on June 23. Mr. Shearer has already seen service in the South African war, and has had nine months' hospital duty on transports and hospital ships.

CAPTAIN HORACE DURNFORD HARRISON, of the Army Cyclists' Corps, has for the second time been mentioned in Sir Douglas Haig's despatches. Captain Harrison is the youngest son of Alderman John Harrison, Sunderland, who recently retired from the Pharmaceutical Council. Prior to August 1914 Captain Harrison was a private in the local Territorials, and on the outbreak of war he was gazetted a second-lieutenant in the Durham Light Infantry, and subsequently attached to the Army Cyclists' Corps. He became a captain about eight months ago.

MR. JOSEPH THOMAS, pharmacist, High Street, Garstang, has now all his four sons serving in the Army. The youngest, Mr. J. K. Thomas (eighteen), has just joined up. The eldest son, Private C. H. Thomas (twenty-seven), enlisted in the Border Regiment in March; the second, Sergeant W. Thomas (twenty-six), of the Essex Regiment, and the third, Private A. B. Thomas (twenty-two), both joined in the autumn of 1914. Sergeant Thomas was

recently awarded the Military Medal for gallant conduct on the field, and Private A. B. Thomas, who had been in France with the R.A.M.C., and since then for nine months in Mesopotamia, is now in training in India, where he has been granted a commission in the Army Service Corps.

LANCE-CORPORAL HERBERT BILLINGTON, London Scottish, second son of Mr. H. B. Billington, pharmacist, Barnsley, is reported missing. On reaching the age of nineteen he enlisted in August 1915, and in December following he was out at the Front. He had a narrow escape from being buried alive some time ago, and has been missing since May 11. In a letter the officer of his platoon states the men were withdrawing after firing upon the enemy and he was suddenly missed. It appeared to be very probable that he had been taken prisoner. "He was a fine, steady man, and as a sniper was most useful," adds the officer. Mr. Billington's other son has returned to France, and is taking a course to qualify for a commission which has been offered to him.

#### Miscellaneous.

**ENEMY FIRMS TO BE WOUND UP.**—Fletcher & Co., 63 Finsbury Pavement, London, E.C., manufacturing chemists. *Controller:* B. E. Mayhew, Alderman's House, Bishopsgate, E.C. [This firm has no connection whatever with Fletcher, Fletcher & Co., Ltd., Holloway, N.]—G. Herbst, 30 Fen-church Street, London, E.C., indigo and commission merchant. *Controller:* G. Bostock, 21 Ironmonger Lane, E.C.

**TOBACCO CONTROLLED.**—The Board of Trade has made, an Order under the Defence of the Realm Regulations bringing under control the stocks of manufactured and unmanufactured tobacco, and prohibiting the owners from dealing with them otherwise than authorised by the Board of Trade. A return of stocks of all tobacco in bond existing on May 31 is to be made by owners on or before June 9 upon forms obtainable at the Board of Trade, Gwydyr House, Whitehall, S.W. 1. A Board of Control has also been set up, and all communications should be addressed to the Secretary (Mr. Harold Footman), Tobacco Control Board, 7 Whitehall Gardens, London, S.W. 1.

## General Medical Council.

OUR report of the proceedings of the General Medical Council (*C. & D.* Supplement, May 26) ended with penal business on May 23. On Thursday, May 24, the case came up of Mr. A. R. Dow, M.B., College Park, London, N.W., who was last February sentenced to nine months' imprisonment for offences in regard to medical certificates under the Military Service Act, 1916. A feature of the case was a petition in favour of defendant from 1,709 persons, and a plea from the Vicar of Willesden on his behalf. The President announced that the facts had been proved, and Mr. Dow's name was ordered to be removed from the Medical Register.

On Friday the name of Mr. G. H. Jones was removed from the Dentists' Register, on the complaint of the British Dental Association. A charge against Mr. G. A. Herklots, M.R.C.S., L.R.C.P., of drunkenness while attending patients was held not to be proved, and the case was dismissed. The penal cases extended to Saturday, when charges were heard against Mr. Alfred Banks, F.R.C.S., and Mr. J. G. Webster Clarke, a dentist. These names were struck off the registers.

#### THE PHARMACOPÆIA COMMITTEE.

The report of this Committee stated that the number of copies of the British Pharmacopœia, 1914, which were sold by the publishers between November 26, 1916, and May 19, 1917, was 1,099. The total number sold since May 20, 1916, is thus about 28,134 copies. Of the second issue, published in May 1915, about 450 remain in stock at the present date. The Committee recommend that a third issue of 5,000 copies be ordered from the printers. Opportunity will be taken to correct in this issue the misprint to which attention was called in the report of May 27, 1916. The Committee had before them communications from a Committee appointed by the Home Secretary to consider questions relating to economies in the use of drugs which, owing to the war, have become limited in supply. The communications refer in particular to official preparations containing glycerin and refined sugar. The Committee recommend that the Council should delegate to them power to make on its behalf such official intimations on the subject as the existing conditions may render necessary.

After some time *in camera* it was announced that a Government Committee having been set up with regard to secondary schools, it was decided, under the circumstances, not to bring up the report of the Education Committee. The Council rose at 3.30.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "*C. & D.*"

#### Limiting the Supply of Malt.

The position in regard to the use of malt for the preparation of malt-extract was explained in the *C. & D.*, May 12, p. 42. Mr. W. Johnston, Secretary of the Chemists' Defence Association, has since received the following reply to inquiries addressed to the Ministry of Food:

(1) It is not permissible to utilise malt for animal food. It is not permissible to utilise malt for domestic purposes in the preparation of beef-and-malt wine or home-made extract of malt, as these articles can be bought ready made on the market.

(2) The use of malt for private home-brewing purposes is not permitted, and no permit can be granted except

(3) to a "brewer for sale."

#### The Air Raid.

MR. FRANK C. JONES, Hon. Secretary of the Folkestone Chemists' Association, writes: "The members of the craft may be interested to know how their fellow-chemists fared in a South-East town during the recent biggest air-raid on record. As stated in the Press, a great deal of damage, and by far the largest number of casualties, occurred in a busy shopping centre in the lower end of the town, and one of our number (Mr. Balmford) was quite close to the premises destroyed. The whole of the plate-glass front of his shop was destroyed and considerable damage done to the contents. Many of the wounded were taken in here, and one little child died in its mother's arms. In the upper part of the town some considerable number of bombs were dropped; one falling near another chemist's shop (Hall & King) caused the breaking of the shop-window and some at the back of the house. Shop-windows were broken on either side of another chemist in this area (my own), but the only damage here was the breaking of an upper-floor window. In the shop-window, however, there was a very curious effect produced by the concussion. A show-bottle standing on a bracket, projecting from one of the main supports of the window inward was overturned, the stopper came out, and the bottle fell between the shelves and the window without touching either, and remains on the floor of the window-enclosure in an inverted position with practically the whole of the contents still in it, and after three days is still in that condition. What makes it the more remarkable is that it would require very careful handling to put the bottle down between shelf and window without touching either, there being only just room for the widest portion to pass."

#### War-Office Contracts.

The following were concluded during April:

*Apparatus, Water-sterilising:* S. Maw, Son & Sons, Ltd.

*Chloride of Lime:* United Alkali Co., Ltd.

*Medicines:* S. Allen & Sons, Ltd.; Burgoine, Burbidges & Co., Ltd.; Burroughs Wellcome & Co.; W. B. Cartwright, Ltd.; Hough, Hoseason & Co., Ltd.; Howards & Sons, Ltd.; Johnson & Sons (Manufacturing Chemists), Ltd.; T. Kerfoot & Co.; Matthews & Wilson, Ltd.; Standard Tablet and Pill Co., Ltd.; Whiffen & Sons, Ltd. (Term Contract) : Apothecaries' Hall of Ireland.

*Methylated Spirit:* Bellingham & Co., Ltd.; B. Briggs & Co., Ltd.; S. Bowley & Sons; J. Burrough, Ltd.; Jones & Co.; Sutton, Carden & Co., Ltd.; J. J. Vickers & Co., Ltd.; Waters & Co., Ltd.

*Surgical Appliances, etc., Repairs of (Term Contract):* S. Maw, Son & Sons, Ltd.

*Surgical Materials:* Arnold & Sons; W. H. Bailey & Son, Ltd.; A. Barton & Sons, Ltd.; A. Berton, Ltd.; British Oxygen Co., Ltd.; A. Browne, Ltd.; J. Bury & Co., Ltd.; Carnegie Bros.; Coxeter & Son; F. H. Critchley; Cuxson, Gerrard & Co., Ltd.; Darton-Gibbs Co., Ltd.; A. E. Evans; W. G. Fuller; G. A. Harvey & Co. (London), Ltd.; J. L. Hatch & Co., Ltd.; G. Haynes & Co.; Haywards, Ltd.; B. Lees & Co., Ltd.; J. Lingard, Ltd.; S. Maw, Son & Sons, Ltd.; Peigham Surgical Instrument Co., Ltd.; Plat's Mill Co., Ltd.; E. Reed & Sons; Robinson & Sons, Ltd.; T. J. Smith & Nephew, Ltd.; Southall Bros. & Barclay, Ltd.; Springfield Spinning Co.; Swift & Goodinson; S. & J. Tuckett; Vernon & Co., Ltd.; Wantage Crutch Works; T. J. Weeks & Sons, Ltd.

#### Birmingham.

The hot days and cold nights with frosts have brought out summer frocks and a plethora of coughs and colds and influenza cases.

The price of two important commodities supplied by meter in our city—gas and water—is to be increased somewhat substantially.

The group of notables who were present to receive the Duchess of Argyll at the Birmingham University included Lieutenant E. C. Bennison, who is a pharmaceutical chemist.

For selling orange-wine containing 22 per cent. proof spirit without a sweets or British wine licence, a Wolverhampton firm of grocers was on May 25 fined 5*l.*, and three guineas costs.

There is to be an increase of the tram fares, which always hits hard the suburban resident, and therefore also the suburban trader, including the pharmacist, for it means "leaving" in many cases.

At the meeting of the Wolverhampton Chamber of Commerce, Mr. Alfred Bird, M.P., said we ought to have a Minister of Commerce before peace was made. The Board of Trade is too busy with executive duties to promote trade.

The death of Mr. Walter Hewitt took place last week. He was well known to pharmacy, being the son of an old-time Birmingham chemist, who had a business in High Street and a reputation for a proprietary lozenge which is now made by Southall Bros. & Barclay.

A somewhat novel show is made by Mr. Piggott, dispensing chemist, Tunstall, who has a double-fronted shop in the High Street. In one window he exhibits pharmacy goods and in the other tobacco, pipes, etc., for the wor-shippers at the shrine of My Lady Nicotine.

#### Liverpool.

On Whit-Monday 12 to 2 P.M. and 6 to 8 P.M. were favourite hours for the opening of pharmacies.

Several more assistants are on the eve of joining the Forces. A pharmacy with an assistant of military age is quite exceptional.

The tributes published in the *C. & D.* to the late Mr. Peter MacEwan evoked an echo in the hearts here of all readers who knew his worth.

A pharmacist whose window-work is always notable displays pick-me-up tablets for "shell-shock," "trench-nerves," "munition-workers," and "nerve-strained business men."

Mr. D. H. Evans, Lodge Lane, devotes much window-space to "Parrish's Food," for which he finds a brisk demand and some difficulty in keeping up supplies, as in the absence of an assistant he cannot put up the preparation himself, and deliveries are slow.

Mr. F. C. Lewis, lecturer on bacteriological methods at the University, is beginning a course of lectures on bacteriology on June 5 at 9 P.M. at the Royal Institution. The course has been arranged by the Liverpool Pharmacists' Training Corps. The fee is one guinea. Applications should be made at once to Quartermaster A. W. Ashcroft, 112 Aigburth Road.

A pharmacist and his senior assistant spun the coin on Whit Monday to decide which of the two should take the holiday. The assistant won both the first trial and the two out of three. He cycled with a companion to Southport. The place was so crowded that the pair seemed likely to be compelled to return tea-less, when a wild horseman ran down a cycling Boy Scout, a crowd collected, a café emptied, and the two Liverpool friends secured a table and a meal. On returning it was learned that the pharmacist, while crossing from his shop to a café opposite, had been upset by a girl cyclist, but happily he suffered no injury. The cycle of events was rather curious.

Scratch teams from Evans Sons Lescher & Webb, Ltd., and Ayrton, Saunders & Co., Ltd., played a friendly bowling match this Whitsuntide at Edge Lane. The scores were:

AYRTON'S.		EVANS'.	
T. Heenan	... 13	J. J. Wicks	... 15
A. E. Dawson	... 9	W. Hill	... 15
D. Edwards	... 15	J. Carney	... 10
A. Jones	... 15	H. W. Arsmorn	... 12
J. Barber	... 12	M. Vivis	... 15
H. Wright	... 15	L. T. Parsonage	... 5
G. H. Taylor	... 13	C. R. Shierson	... 15
W. Kirkpatrick	... 15	A. E. Oxlaide	... 6
J. Lunby (Captain)	... 9	J. Blackstock (Captain)	... 15
H. Williams	... 15	D. West	... 11
Jones	... 15	A. N. Other	... 11
E. Micklewright	... 8	G. Jepson	... 15
McSweeney	... 14	G. R. Garnett	... 15
J. G. Rushby	... 14	W. Charnock	... 15
Falconer	... 15	J. Thredder	... 7
D. Rees	... 9	G. S. Sewell	... 15

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#### Sheffield.

The local pharmacists have been looking for some official statement on the position of men between the ages of forty-one and fifty, and in the absence of any statement they are refraining from attesting, as their position would be very serious if they were called up.

Prescriptions are being presented to chemists from the medical officer of health's department, signed by or on behalf of the tuberculosis officer. These should not be presented to the Pricing Bureau, but forwarded for payment to the Tuberculosis Dispensary, Hawley Street.

A strong feeling exists among chemist-opticians against the attitude of eye specialists in sending their patients to optical dealers who have issued eye-testing cards, instead of leaving the patient the free choice of purchase. In many cases the patient has been referred for medical treatment by the chemist, who then finds his customer sent on to an opponent for glasses.

A thrilling story is related by Nurse E. M. Preston, V.A.D., daughter of Mr. Job Preston, chemist and druggist, Barker's Pool and Marlborough Road. Writing from Savona she states that she was recently rescued by a boat of an Ally after the liner in which she was had been torpedoed in the Mediterranean. She speaks most highly of the kindness extended to her and the other survivors by our Allies. The family of Mr. Job Preston almost constitutes a pharmaceutical record. In addition to Miss Preston he has another daughter serving as a nurse and four sons serving in the Army. One son is stationed at the 3rd Northern Base, and another son, Sergeant J. Preston, B.Sc., is at the Wharncliffe War Hospital.

#### Miscellaneous.

WILLESDEN U.D.C. has accepted the tender of Duncan, Flockhart & Co., Ltd., for the annual supply of drugs to the hospital.

POISON-LICENCE WANTED.—Mr. H. S. Cheesewright, seed-merchant, 7 Wide Bargate, Boston, has applied for a licence to sell sheep-dips and other insecticides.

WORKMAN'S COMPENSATION.—A belting-repairer who lost his forearm through an accident at the factory of Boots, Ltd., Nottingham, has been awarded 190*l.* compensation.

SHOP-WINDOW LIGHTS.—The Home Secretary has made an Order which, *inter alia*, prohibits the retention of the interior lighting of shop-windows after the shops are closed for the serving of customers.

WINDOW-DISPLAY.—At the branch of Boots, Ltd., Coney Street, York, there is a window-display of fine chemicals as exhibited at the British Association meeting, 1916. All the chemicals have been made in Sir Jesso Boot's research laboratories.

WOMEN'S WORK.—An exhibition of photographs and samples of women's war-work, similar to the one held at the Royal Colonial Institute, London, S.W. (*C. & D.*, March 31, p. 35), was opened by the Lord Mayor on May 30 at the Royal Colonial Institute, Bristol.

HOSPITAL SPIRIT REBATE.—The applications for grants from the Exchequer in relief of duties paid on spirit used in voluntary hospitals must be made not later than June 30. The Local Government Boards of England and Scotland are the bodies to which application should be made.

MINISTRY OF HEALTH.—Lord Rhondda on May 25 informed a deputation from the Panel Medico-Political Union that the scheme for a Ministry of Health has not been completely framed. He added that he did not favour a whole-time salaried medical service.

COMMERCE AND INDUSTRY.—The following members have been added to Lord Ba'four of Burleigh's Committee on Commercial and Industrial Policy: Sir Charles Henry, Bart., M.P., Mr. J. A. Roxburgh, Sir William Pearce, M.P., Sir William Priestley, M.P., Sir Archibald Williamson, Bart., M.P.

OPIUM CASES.—At the Thames Police Court, London, on May 29, Chong Foo was fined 3*l.*, and Wong Jork was bound over to come up for judgment when called upon, for being in possession of opium prepared for smoking. On May 30 Pi See Tak was fined 10*l.* for being in possession of opium prepared for smoking.

BUYERS' PROVIDENT ASSOCIATION.—The eleventh annual meeting of this Association was held at the Restaurant Frascati, London, on May 22. The fund now stands at 2,953*l.* 5s. 3d. Mr. J. J. Potts was elected President for the ensuing year. The question of admitting lady members is to be discussed at a meeting on June 19.

POSTING DUPLICATE DOCUMENTS.—The Post-office has devised a system for the convenience of traders wishing to post duplicate documents abroad so that the originals and the copies of documents may be conveyed by different mails. The system applies to most of the British Possessions in the Eastern Hemisphere, and particulars are obtainable at any post-office.

ATMOSPHERIC POLLUTION.—The Department of Scientific and Industrial Research has made a grant of 500*l.* to the Advisory Committee on Atmospheric Pollution constituted from the Committee for the Investigation of Atmospheric Pollution, and connected with the Meteorological Office, to cover the work for the current year. The Hon. Secretary

of the Committee is Dr. J. S. Owens, 47 Victoria Street, London, S.W. 1.

**COMMERCIAL TRAVELLERS' FARES.**—At the Conference of the Commercial Travellers' Association, held at Liverpool on Whi Monday (May 28), it was stated that there are between 80,000 and 100,000 commercial travellers in the United Kingdom. The greatest of all the grievances brought up at the Conference was the question of high railway rates and the withdrawal of week-end tickets. A resolution to present a petition to Parliament regarding the injustice of the present railway rates was defeated.

**Poisoning-Cases.**—The fatal cases of poisoning reported during the week include the following: Captain A. E. Salkeld, R.A.M.C., died from misadventure in a London hotel. He had hypodermically injected an overdose of morphine in his arm.—A Hackney man named Kenning poisoned himself with chlorodyne.—The inquest was concluded this week on an Enfield minister who died on May 4 after eating cooked rhubarb-leaves. Mr. J. Webster, assistant analyst to the Home Office, said that some leaves from rhubarb growing near those which caused the fatality were found to contain potassium and calcium oxalate in the proportion of 10 gr. to the pound. The jury returned a verdict that death was due to a soluble oxalate.

**MILITARY CHARGES.**—At Marlborough Street Police Court, London, on May 24, John Henderson Bell, a medical practitioner, was charged with attempting to produce an infirmity in a soldier, and a tailor named Markham was charged with aiding and abetting. It was stated that defendants attempted to cause synovitis by means of a hypodermic injection in the knee.—At Bow Street Police Court, on May 30, Andrew Mackenzie Ross Sinclair and George Harry Bishop, medical practitioners, were two of several defendants charged with an offence under the Military Service Acts. It was alleged that Dr. Bishop produced irregularity in the heart of a man called up for military service by means of pills containing thyroid gland, and thus enabled him to be classed in the lowest category.

**DISPENSERS.**—Mr. C. A. Andrews, dispenser to the Paddington Poor-law Infirmary, has had his salary raised from 150*l.* to 160*l.* per annum. Miss M. Jared has been appointed assistant dispenser under the same Board at a salary of 120*l.* a year.—The Bermondsey Board of Guardians have decided to advertise for a dispenser for their infirmary in the place of the late Mr. Jeremiah Bourke, at a salary of 180*l.* a year, rising yearly 5*l.* to a maximum of 200*l.* The Clerk suggested that to continue the present arrangement of employing two dispensers at a combined salary of 400*l.* a year for the infirmary and outdoor poor is an inordinate waste of a dispenser's time and of public money, as the outdoor dispenser attended seven and a-half hours a day in order to dispense daily an average of thirty-six prescriptions, while at the infirmary the work is being done satisfactorily in three or four hours daily by an aged man. He urged that the work shou'd be confined to one dispenser at a salary of 240*l.* a year. The medical superintendent suggested as an alternative scheme that the Board should enter into an arrangement with local chemists in respect of outdoor dispensing. The Guardians, however, resolved to continue the existing arrangement of two dispensers.—The Metropolitan Asylums Board has decided to make a grant of six guineas towards the funeral expenses of Mr. J. Borthwick, who acted as dispenser for thirteen years at the South-Western Hospital.—The Local Government Board, in response to a request from the Poor-law Section of the Public Pharmacists' Association, has agreed to make the scale of war-bonuses, now recommended for Civil servants by the Conciliation and Arbitration Board for Government employés, applicable to dispensers in the Poor-law service on application of the authority concerned. Dispensers may obtain further particulars from Mr. R. W. Lindsey, Hon. Secretary of the Poor-law Section, 1 Dartmouth Park Avenue, London, N.W. 5, or from Mr. G. W. Gibson, Hon. Secretary of the Public Pharmacists' Association, St. Pancras South Infirmary, Pancras Road, London, N.W. 1.

THE INDIAN MAIIS will in future only be despatched fortnightly instead of weekly as hitherto.

A QUARTER OF A MILLION PEOPLE have applied to the Sugar Commission for supplies of sugar for use in jam-making at home.

**PHOSPHORITE NODULES**, a potential source of phosphorus, which Germany is much in need of, have been discovered near Ronnenburg, in Saxon Vogtland.

THE PUBLICATION of the "Kew Bulletin" is to be suspended, as it has been decided by the Controller of the Stationery Office to be non-essential in view of the necessity of economising in the use of paper.

## Irish News.

### Brevities.

Correspondence is taking place in the "Irish Independent" regarding the hours and rates of pay of chemists' assistants.

William Clements, a packer employed by Dr. Robert Evans, Ph.C., 49 Dawson Street, Dublin, was sentenced last week in the Dublin Police Court by Mr. Swift, K.C., to twenty-one days' imprisonment for stealing goods from his employer (*C. & D.*, May 26, p. 35).

The news of the death of Mr. Peter MacEwan was received with sorrow in Belfast, where he was known to the leading members of the trade. The Chemists' and Druggists' Society of Ireland convened a special meeting for May 31 for the purpose of passing a resolution of condolence with the family.

Mr. J. M. Whyte, manufacturing chemist, Ormeau Avenue, Belfast, has received numerous congratulations on the success of a concert which he organised in the Ulster Hall, Belfast, on May 23 in aid of the Limbless Branch of the U.V.F. Hospital for wounded soldiers in Belfast. There were over 2,000 persons present, and the concert is to be repeated.

### Theft Charge.

At Ballymena on May 24, at a special Police Court, John McQuitty, Ballymena, who had been arrested the previous week in Belfast, was charged with stealing 795 gals. of petroleum, the property of the British Petroleum Co., Ltd., and embezzling 76*l.* 4*s.* 2*d.* belonging to Mr. J. A. Woodside, Ph.C. On the case being called defendant was not present, and it was stated that he had been in custody up to Saturday, when he had been allowed out on bail. A warrant was granted for his arrest.

### Dublin Closing Order.

The Dublin Retail Drug Association applied to the Public Health Committee of the Corporation some time ago asking that an order be made for the closing of chemists' shops at 9 P.M. on weekdays and 10 P.M. on Saturdays, and on a poll 87 voted for the proposal and 10 against, and the Committee therefore proposes to make the order as requested. The Committee, in its report on the matter to the Council, states that it is doubtful if there is power to make such an order, as the Shops Act provides that "Nothing in a closing order shall apply to any shop in which the only trade or business carried on is trade or business of any of the classes mentioned in the third schedule to this Act." The third schedule is a list of the trades and businesses exempted from provisions of closing orders, and it includes the business of "the sale of medicines and medical and surgical appliances." The law agent's advice was sought, and his opinion was to the effect that as most chemists combined with the sale of medicines and medical and surgical appliances the sale of various other articles, the order would affect them in regard to such sales, and that the order could be made with respect to the sale of articles other than medicines and medical and surgical appliances. The law agent stated he was strengthened in this view by the fact that a similar order had been made in Liverpool within the past year. As a result of further correspondence with the Dublin Retail Drug Association the law agent further advised that a closing order could be made compelling the closing of all retail chemists and druggists, with the exception of those (if any) who confined their business to the sale of medicines and medical and surgical appliances. If the business extended to other matters than the sale of medicines and medical and surgical appliances an absolute closing order could be made, and the suggestions of the Retail Drug Association could be carried out by a clause authorising sales after the closing-hour of medicines and medical and surgical appliances urgently required. Such a clause would not authorise the keeping open of the shop, though it would permit urgent excepted matters to be supplied. The Committee expressed its willingness to take the prescribed steps for the making of a closing order on the lines advised by the law agent, and the Retail Drug Association furnished a list of chemists and druggists—a very large majority of whom are willing to close their shops—and requested that the order be made. It was accordingly decided to take the necessary action for the making of an early-closing order, fixing 9 P.M. as the closing hour for the first five weekdays, and 10 P.M. on Saturdays, providing that the sale after these closing-hours of medicines and medical and surgical appliances urgently required was not to be prohibited, and also providing that the order was not to operate in respect of the keeping open of shops during the twelve weekdays immediately preceding January 1 in each year.

## Scottish News.

### Brevities.

Mr. H. M. Dugan, dispensing chemist, has been admitted a burgess of guild of Aberdeen.

Scottish pharmaceutical associations have the matter of a universal minimum price-list under consideration. A few have already adopted lists in use in England.

Kirkcaldy and Dysart Water Commissioners have fixed the water-rate for chemists and druggists at 5d. For dark-rooms and photographic work the charge will be a little higher.

With the sudden advent of summer weather has come the long-delayed demand for sponges, bathing-caps, water-wings, holdalls, and toilet-requisites. Coast and country chemists are well stocked, and ready for a rush.

### Dundee.

It is regretted that "medicines at wholesale prices" are being advertised to the public by a local chemist and druggist.

Mr. Charles Duncan, chemist and druggist, a partner of the firm of Charles Kerr, 56 Nethergate, leaves this week to join the R.A.M.C. at Blackpool.

### Edinburgh.

Measles and German measles are very prevalent at present.

House agents report that at this term there has been little or no demand for business premises.

Cotton-wool is now selling at 1s. 10d. to 2s. per 1-lb. roll. Bandages have also been advanced in price, approximately 1d. per inch.

The Royal Infirmary is setting a good example in the food economies which have been effected recently. Although the bread ration in some hospitals is 7 lb. per head a week, it is only 2.8 lb. in the Royal Infirmary.

In regard to a degree in commerce, a Committee of Edinburgh University Court has been authorised to invite an expression of opinion from other bodies in Edinburgh interested in the promotion of higher commercial education.

T. & H. Smith, Ltd., intimate that from June 1 they are relinquishing all further business in coffee-essences, aerated waters, and house-hold ammonia. Aerated-water empties will be credited up to September 1, coffee and ammonia emetics not later than July 1. The reasons given for the stoppage are difficulty experienced in procuring raw materials and packages, shortage of labour, and necessity for finding more accommodation for other and more important departments.

In view of the fact that owing to the calling-up of more doctors in Edinburgh the attendance on 36,000 insured persons would have to be undertaken by forty-seven doctors left, it was determined, states the "British Medical Journal," at a meeting of the representatives of the Insurance and Panel Committees, to establish three bureaus for consultations, attendances, and receipt of messages. It is suggested that the bureaus should be open daily, except Sundays, and that two doctors should be in attendance in rotation.

In the Court of Session at Edinburgh last week, Mr. James Dunn, chemist and druggist, carrying on business at Newton-Stewart and Creetown, sued S. Pearson & Son, Ltd., contractors, Gretna, and Hugh Symington & Sons, Ltd., contractors, Glasgow, for 2,500/- for himself and 500/- for each of his two children as damages in respect of personal injuries and the death of his wife on July 23 last in an accident at a level-crossing on the road between Dumfries and Carlisle. The crossing connects a number of sidings adjoining the Glasgow and South-Western Railway line with certain works being erected by Pearson & Son. Lord Anderson, in allowing an inquiry into the facts of the case, held that plaintiff had relevantly averred fault against Pearson & Son, as the constructors of the sidings and the crossing, and also against the other defendants as the contractors for the haulage operations. His Lordship recommended an extra-judicial settlement of the action, and expressed the view that his present impression was that plaintiff had a good claim against somebody.

### Glasgow.

The Chemical Laboratory Committee of the Glasgow Corporation considered an application by Mr. F. W. Harris, F.I.C., the Corporation chemist, for an increase of his salary. After consideration it was decided to grant an increase of 50%. Mr. Harris has been in the service of the Corporation for seventeen years, and his salary will now be 600/- a year.

## French News.

(From the "C. & D." Paris Correspondent.)

M. EDMUND GALLET, of the firm of Roger & Gallet, Hon. President of the Syndical Chamber of French Perfumery and of the Union des Fabricants, died last week.

A FICTITIOUS PRESCRIPTION for morphine hydrochloride, 50 centigrams, was presented to a Parisian pharmacist recently, but was not dispensed. The woman who wanted the morphine got two months' imprisonment, and her messenger three months', under the Stupefying Drugs Act (*C. & D.*, 1916, p. 1237).

HOFFMANN, LA ROCHE & CO., of Basle, have forwarded to a Parisian paper a document, signed by a Swiss notary, stating that they have sold their works at Grenzach (Germany) and Vienna to a limited company (the Chemische Werke Grenzach) founded by a Berlin bank. The head house remains at Basle, and the proprietors and capital are exclusively Swiss.

THE NATIONAL DYE AND CHEMICAL CO., the recently founded organisation alluded to in the Winter Number, has been sued by Poirrier & Dalsace, who claimed that for thirty-five years their firm has used the style and title of Dyes and Chemical Works ("Matières Colorantes et Produits Chimiques"), and had thus acquired the exclusive right to this particular designation. The Court, however, declined to support this theory.

TREE-REPAIRING.—Fortunately, a large number of fruit-trees which the Germans in their forced retreat from French territory attempted to destroy by cutting off circles of bark have been saved by the prompt application of grafting-wax and bandages. Thousands of Army surgeons and Red Cross ambulance-drivers and stretcher-bearers assisted in this work. Scientific methods have also enabled the French authorities to circumvent the designs of the Germans in the case of many of the trees which were cut down.

THE FRENCH PROPRIETARY-MEDICINE TAX ACT comes into operation on June 1, 1917, a decree to this effect having been issued recently. A discussion has already arisen as to exactly what preparations come within the scope of the Act. The text states they are "those of which the manufacturer or vendor does not publish the formula." The question is whether the "formula" implies a quantitative indication of the constituents of the medicament. The manufacturers say no, but the authorities may or may not accept this reading.

BERTHELOT'S MONUMENT.—Festival ceremonies are practically tabooed at Paris, as elsewhere, in war-time. A rare exception, which took place on May 21, was the inauguration of the statue of the eminent chemist (some time Professor at the Paris School of Pharmacy), Marcellin Berthelot. The Sorbonne, as the home of the Faculty of Sciences and the heart of the Latin Quarter, was appropriately chosen for the function, which marked the close of the Exhibition of "School and War," organised by the French Teaching League. The great amphitheatre was filled to suffocation, and on the platform were the representatives of official and intellectual France—M. Raymond Poincaré and his Ministers of State, the Paris Municipal Council, and the teaching staff of the University. The speakers were the Head of the Collège de France (to which Berthelot was attached), the Prefect of the Seine, the President of the Municipal Council, the Director of the French Academy, the Vice-President of the Italian Senate, and others. There was a war-time note in many of the speeches. M. Armand Gautier, the chosen orator of the Academy of Sciences, told how during the 1870-71 siege of Paris he met Berthelot returning from a visit to the outposts, where he had accompanied a French general. The savant had shown the soldier how the defence of the city could be improved; the General had hesitated for fear of reprisals, not wishing to provoke the enemy to bombard Paris. Shortly after the Latin Quarter was shelled, the College of France and the Museum were damaged. M. Painlevé, Minister of War, referred to the same epoch. Not only did Berthelot show how chemical substances could be synthesised, but "he dared to apply scientific methods to these explosives, whose violence and terrible rapidity seemed to defy all control, but of which the artilleryman must understand the laws the better to regulate and subjugate." It was "his long and obstinate research into the problems of waves of explosion which led up to M. Vieille's discovery of smokeless powder." The speeches terminated, the official cortège proceeded to the statue hard by—the work of M. René de Saint-Marceaux. When this was unveiled the Paris school-children and the Cadet Corps—some thousands of young people in all—marched past the monument of the savant and patriot.

## South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

A GENERAL MEETING of the Pharmaceutical Society of the Cape Province was held in the Society's room on Thursday, April 19. The President (Mr. D. L. Petrie) was in the chair. There was a very good attendance, between forty and fifty members being present. The agenda was lengthy and very interesting. A letter was read from the Association of Municipal Corporations of Cape Colony re printing formulæ of patent medicines, and this gave rise to a long discussion. Several members wanted to know what Municipal Corporations had to do with the formulæ of patent medicines. It was finally decided, on the proposition of Mr. Stanley Hill, to write to the Town Clerks of Cape Town and ask him to define a patent medicine. Further discussion was postponed until an answer to the query had been obtained. Mr. Bluett (of Lennon, Ltd.) gave a lecture on "A Pill in the Making," which was illustrated with some very fine lantern-slides. The lecture was followed with keen interest by all present. A hearty vote of thanks was accorded to Mr. Bluett.

THE NEW MEDICAL AND PHARMACY BILL, to which reference has been made in previous issues of this journal, has passed a second reading in the Senate and been referred to a Select Committee of that House. The Bill, we may recall, is for the purpose of consolidating and amending the laws in force in the Union relating to medical practitioners, dentists, chemists and druggists, midwives and trained nurses, the importation, sale, and use of habit-forming drugs, and other matters relating thereto. Sir Thomas Watt said that the Bill was intended to protect the public and the profession against improperly qualified practitioners, and also to apply the principle of reciprocity as between the Union of South Africa and other countries granting medical degrees. There was nothing in the Bill to prevent storekeepers in South Africa from selling sheep-dips or even patent medicines, provided that there was no chemist within five miles. Any storekeeper could, of course, sell patent medicines that did not contain poison. The farmers' co-operative societies would be allowed to sell certain poisons to their members. A new principle had been introduced, to the effect that the seller of poisons must add a leaflet showing the antidotes to such poisons should they be taken in mistake. Restrictions were placed on the sale of drugs producing evil habits. A difficulty had arisen in dealing with "dagga" smoking among the natives, as the herb grew wild in many parts of the Union. One subject dealt with in the Bill was the grievance that some medical practitioners who could practise in the Orange Free State and the Transvaal were debarred from doing so in the Cape and Natal owing to the absence of reciprocity respecting foreign diplomas and degrees. The South African Union was making arrangements for a three-year medical course, and in due time, the Minister said, they would have a full medical course in South Africa. At present the course had to be completed elsewhere. The registration-fee for a medical practitioner (25/-) was rather high, but the wish was to make the Medical Council self-supporting. A pharmacist would pay 12/- 10s.—A special general meeting of the Cape Pharmaceutical Society was held at the Society's room, Darling Street, on April 5, to discuss the new Pharmacy Bill. There was a very full attendance, over which Mr. Petrie presided, and among those present was Mr. Stranack (Stranack & Williams, Durban), who was in Cape Town as a delegate from the Natal Society, to watch their interests while the Bill was before the House. The various clauses which were considered to interfere with the craft were discussed at length, and several amendments and resolutions were passed. Mr. Stranack, who had been present at the Bloemfontein Conference, gave some valuable hints and suggestions. Great interest centred round Clause 31, Sub-Section B (Chap. 3). It was felt that if this clause was passed as printed it would take away practically all privileges of chemists and druggists, and it was decided to use every effort to obtain an amendment. Several other alterations were proposed and adopted, but whether they will be considered when the Bill is being discussed in Parliament remains to be seen.

[Clause 31, Sub-Section B (Chap. 3), referred to above, is as follows:

"Any person who, not being registered as a medical practitioner, (b) professes to pursue, or by advertisement, representation, or any means whatsoever holds himself out as pursuing, the calling of a medical practitioner, or professes to diagnose disease, bodily defects, or injuries, and thereafter to prescribe for or treat the same, or professes to give advice in medicine, surgery, or midwifery, or holds himself out as aforesaid as so acting."

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ALBERT ED. BENTLEY, LTD. (P.C.)—Capital 20,000*l.*, in 1*l.* shares. Objects: To take over the business of a canister and tin-box manufacturer and sheet-metal worker carried on by Albert E. Bentley at Manchester. Solicitor: W. Proctor, 30 Brazenose Street, Manchester.

STOKE-ON-TRENT RUBBER CO., LTD. (P.C.)—Capital 500*l.*, in 1*l.* shares. Objects: Manufacturers of and dealers in rubber, guttapercha, vulcanised goods, waterproof cloths, surgical goods, etc. Directors: H. A. Levie and R. C. Eldon, R.O., 8 Church Street, Stoke-on-Trent.

LONDON BRUSH CO., LTD. (P.C.)—Capital 300*l.*, in 1*l.* shares. Objects: Manufacturers of and wholesale, export, and retail dealers in brooms, whisks, dandies, and brushes, including bottle, artists', painting, toilet, household and fancy brushes. The first directors are A. P. Blaxter, A. P. Blaxter, jun., and G. W. Chaloner, R.O., 37 Oakley Road, Islington, London, N.

MIDLAND CHEMICAL CO., LTD. (P.C.)—Capital 10,000*l.*, in 1*l.* shares. Objects: To take over the business of a chemical and colour manufacturer and drysalter carried on by R. C. Lindop, J. S. Remington, J. J. Siddall, and C. McNeal at Fenton, Staffs, as the "Midland Chemical Co." The first directors are R. C. Lindop, C. McNeal, J. S. Remington, J. J. Siddall, S. Cox, A. E. Winkle, and L. H. Winkle. Solicitors: Hand & Co., Stafford.

BRITISH SACCHARIN MANUFACTURING CO., LTD. (P.C.)—Capital 10,000*l.* Objects: To take over from D. G. Binnington a formula for the manufacture of saccharin, with certain plans, specifications, etc., for saccharin plant, and for a building in which to erect the same; to acquire from D. G. Binnington and L. Harding and J. W. McMyn all the information at their disposal with reference to the manufacture of saccharin, and as to the latter, their information, written and otherwise, gained during their experiments in the manufacture of saccharin; to acquire also a leasehold interest in certain land in Baxenden, Lancs.

BRADFORD CHEMISTS' ALLIANCE, LTD.—The first general meeting of the shareholders of this mutual buying company, founded by the Bradford Pharmacists' Association, was held on May 24 at the rooms of the Bradford Chamber of Trade, the chairman of the company (Mr. Albert White, Shipley) presiding.

O. PHELPS BROWN, LTD., 19 Green Street, Leicester-Square, W.—The creditors and shareholders of this company met on May 31 at the Board of Trade offices, Carey Street, Lincoln's Inn, London, W.C., when accounts were submitted showing total liabilities 1,931*l.* 11s. 4*d.* (unsecured, 1,368*l.* 1*s.* 4*d.*), no available assets, and a deficiency of 4,368*l.* 1*s.* 4*d.* as regards contributors. The company was formed in September 1906 with a nominal capital of 3,000*l.* to take over the business formerly carried on by Mr. Geo. Heath Tilley under the style of "O. Phelps Brown's Herbal Remedies and Dr. Lane's Catarrh Cure." The business was established some sixty years ago. The company traded at a loss from 1910, with the exception of 1912, when a small profit was made. A Receiver for debenture-holders was appointed last December, and was carrying on the business when the winding-up order was made. The meetings were formally adjourned for a week, and it was intimated that the liquidation would be left with the Official Receiver.

## Gazette.

### Partnerships Dissolved.

BOWDITCH, W., JUN., and BOWDITCH, S., 134 Fenchurch Street, E.C., Colonial brokers, under the style of W. & S. Bowditch.

CRIPPS, E. C., and DICKMAN, H. H., 238 High Street, Great Berkhamsted, chemists and opticians.

FOX, A. R., METCALFE, A. R., and WATERHOUSE, E., 92 Queen Street, and 24 Arundel Street, Sheffield, wholesale chemists, under the style of the Vitene Manufacturing Co.

### Bankruptcy Acts.

#### RECEIVING ORDER.

CHALONER, H., 303-305 Stratford Road, Birmingham, chemist.

## Deaths.

**BAKER.**—At Harlesden, London, N.W., on May 29, Miss Sarah Martha Baker, D.Sc., F.L.S., aged twenty-nine. Miss Baker was one of Sir William Ramsay's students, and specialised in the chemistry of botany.

**BRYANT.**—At Newquay, Cornwall, on May 27, after a short illness, Mr. John Edward Bryant, of C. H. Bryant, Ltd., 20 Heneage Lane, London, E.C., manufacturing chemists and drug-dealers, aged about sixty. Mr. Bryant commenced his business career with the London branch of T. & H. Smith, and was with them for about twenty-three years, ultimately becoming the London manager and one of the trustees of the firm, from which position he retired in 1899. Subsequently he joined his brother, Mr. C. H. Bryant, which business was converted into a private limited company a few weeks ago. Mr. Bryant enjoyed a large measure of respect among wholesalers on 'Change and in the Metropolis generally.

**BUSH.**—At Paulton, Somerset, on May 18, Mr. Thomas Bush, chemist and druggist, aged eighty-two.

**COLEMAN.**—At Clarendon Street, Wolverhampton, on May 29, Caroline, wife of the late William Coleman, chemist, 7 Worcester Street, and mother of E. F. Coleman, pharmacist, Lynton, and of J. H. Coleman, pharmacist, 7 Worcester Street, Wolverhampton (Secretary to the Wolverhampton Chemists' Association), aged seventy-eight.

**FENNER.**—The death is announced on May 21 of Mr. Edwin Fenner, chemist and druggist, of Brunswick Road, Shoreham (Sussex), aged seventy. For forty-nine years Mr. Fenner was dispenser at the Royal Sussex County Hospital, Brighton, and was elected a life governor of the institution on his retirement about three years ago.

**HOLLOWAY.**—At Hove, on May 26, Louisa Driver-Holloway, widow of Henry Driver-Holloway, of "Willersley," Park Hill Rise, Croydon, aged seventy-three. Mr. Driver-Holloway, who died in 1909, was formerly the proprietor of the business of Thomas Holloway, at that time at 78 New Oxford Street, W.C., and was the brother-in-law of the founder.

**TULLY.**—At Norwich, on May 19, Mr. James Turnbull Tully, chemist and druggist, aged thirty-eight.

### Died on Service.

**BAGGS.**—Private E. E. Baggs, Worcester Regiment, who enlisted in March 1916, while with Mr. B. H. Butler, pharmacist, Reading, has fallen in action at the age of twenty-five.

**BIDDLE.**—Private John Evelyn Biddle, Royal Warwickshire Regiment, was killed in action about April 26. He was the eldest son of Mr. F. H. Biddle, dispensing chemist, Olton, Birmingham, and was twenty years of age.

**CAUNT.**—Private C. Caunt, R.A.M.C., of Kington, who prior to enlistment assisted his father, Mr. J. W. Caunt, pharmacist, has been killed by a shell while on active service in France on May 12. He was twenty-one years of age.

**FARGHER.**—Private A. L. Fargher, of the Royal Fusiliers, chemist and druggist, who enlisted while with Boots, Ltd., and who was previously with Mr. E. D. Laughlin, of Ramsey (I. of M.), and the late Mr. R. K. Kermode, of Castletown, has died of wounds received in action. Private Fargher qualified as a pharmacist in 1904.

**MARSH.**—Private C. R. Marsh, of the Middlesex Regiment, for several years with Walker & Harris, pharmacists, of Sun Street, Canterbury, has been killed in action while acting as stretcher-bearer.

**PADLEY.**—Private R. A. Padley, London Regiment, son of Mr. F. R. Padley, dispensing chemist, Wooler, who was reported as missing on July 1, 1916, is now regarded by the War Office as having been killed on that date.

**REILLY.**—Private Edward Reilly, of the Royal Engineers, has been killed in action. Private Reilly served his apprenticeship with Mr. J. P. Thomson, chemist and druggist, Penicuik, and was in the employ of Raimes, Clark & Co., Ltd., for several years prior to enlistment. He was twenty-three years of age.

**SINCLAIR.**—Private Archibald Sinclair, of the Gordon Highlanders, has been killed in action. Private Sinclair served his apprenticeship with Mr. A. A. Porteous, chemist and druggist, Lerwick, and was for ten years with Raimes, Clark & Co., Ltd., Edinburgh. He enlisted in the Gordon Highlanders while employed with Mr. J. W. Frank, of Guisborough.

**TUCKER.**—Private Alexander Tucker, of the London Regiment, was killed in action at Salonica on May 15, aged twenty-five. He was the son of Mr. W. C. Tucker, pharmacist, 1 Ashdown Street, Queen's Crescent, London, N.W.

## Personalities.

**LORD DEVONPORT** is resigning his office of Food Controller owing to ill-health.

**MR. STEPHEN PAGEJ,** F.R.C.S., is collecting material for a record of the life and work of the late Sir Victor Horsley.

**MR. F. E. LETT,** analytical chemist, Bridgett, Burton-on-Trent, has been placed on the Commission of the Peace for the borough.

**MR. C. LYB** (Thos. Tyre & Co., Ltd., Stratford) completed fifty years' service with the company and its predecessors on May 25.

**THE APPOINTMENT OF MR. J. R. HATTON** as dispenser to the Hunslet Board of Guardians has been sanctioned by the Local Government Board.

**LORD MOULTON,** Director-General of Explosives Supply, Ministry of Munitions, has been nominated for election as President of the Institution of Gas Engineers for the ensuing year.

**MR. GEORGE JAMES GOSTLING,** Ph.C. Ireland, J.P., C.C., Stowmarket, was, at the quarterly meeting of the East Suffolk County Council held on May 28, elected an alderman of the county.

**PROFESSOR H. G. GREENISH** lectured at Ipswich last week on "Medicinal Herbs and their Production" at a meeting of the Eastern Counties Herb-growing Co-operative Association, Ltd.

On the recommendation of the Higher Education Subcommittee of Blackburn, it has been agreed that the salary of Dr. R. H. Pickard, F.R.S., Principal of the Technical School, be increased from £500 to £600 a year.

**MR. E. W. MORRIS,** Secretary of the London Hospital, and formerly pharmacist at that institution, contributed to the "Daily Telegraph" on May 31 a thoughtful article on "The Well-being of England." He cutined a new national health scheme.

**MR. JOHN COOKE HEWLETT,** F.C.S., chairman of C. J. Hewlett & Son, Ltd., manufacturing chemists, Charlotte Street, London, E.C. 2, celebrated his seventieth birthday on May 29. His many friends in various parts of the British Empire will be glad to know that Mr. Hewlett is in excellent health.

**ALDERMAN A. SIDNEY CAMPKIN,** J.P., was on May 25 re-elected Chairman of the Cambridge (Porch) Assessment Committee, a position he has held for upwards of twenty-five years. The Committee is composed of representatives of the University and Colleges, the Town Council, and the Board of Guardians.

**DR. HENRY H. RUSBY,** who recently resigned his position as pharmacognosist of the port of New York, has undertaken another expedition (his third) to South America in a search for botanical drugs. During 1885, 1886, and 1887 Dr. Rusby explored Peru and Bolivia, studying the coca-plant and the cinchona-plantations.

**SIR BOVERTON REDWOOD** presided at the quarterly meeting on May 25 of the Imperial Society of Knights Bachelor held in the Knights' Hall, Clifford's Inn, London. Sir Boverton is a Past-President of the Society of Chemical Industry, and is well known in the world of pharmacy from the official position which his father held in connection with the Pharmaceutical Society.

**MR. HAROLD W. LANE,** chief of the literary section at the head offices of Burroughs Wellcome & Co., has been presented with a handsome oak chiming clock, with inscription, to commemorate the completion of twenty-one years' service. Mr. G. E. Pearson, general manager, in making the presentation on behalf of the firm, congratulated Mr. Lane, and expressed hearty appreciation of his valued services in connection with the literary and photographic activities of the firm.

We had a pleasant chat the other day with Mr. George F. Oldfield, who is the manager in South Africa for Genatosan, Ltd., the purchasers of the business in this country of the Sanatogen Co. Mr. Oldfield has been in South Africa since 1912, and represented the previous proprietors of the well-known invalid food. He returns to Cape Town, with his wife and two daughters, shortly. Mr. Oldfield and family left South Africa in November last, when business was in rather a chaotic state. He is returning, however, full of confidence that there is great future for British business in South Africa as a result of the present upheaval. Since he left he has been appointed Vice-President and member of the Council of British Manufacturers' Representatives' Association, Inc., and he is also a member of the South African Proprietary Articles Trade Association.

**THE INTERNAL REVENUE-TAX** on pharmaceutical specialities in France comes into operation on June 1, 1917.

## Trade Notes.

**AMERICAN CHEMICALS.**—B. Brown & Bro., 237 Water Street, New York, are headquarters for many kinds of chemicals, dyestuffs, gums, oils, tanning-materials, etc., all of which they particularise in a neat booklet, issued to the trade.

**ERASMIC UBIQUITOUS.**—The advertisement in this issue of the Erasmic Co., Warrington, shows a photograph "somewhere" in the war zone which indicates that Erasmic penetrates to the most inaccessible parts of the world—because it is wanted everywhere.

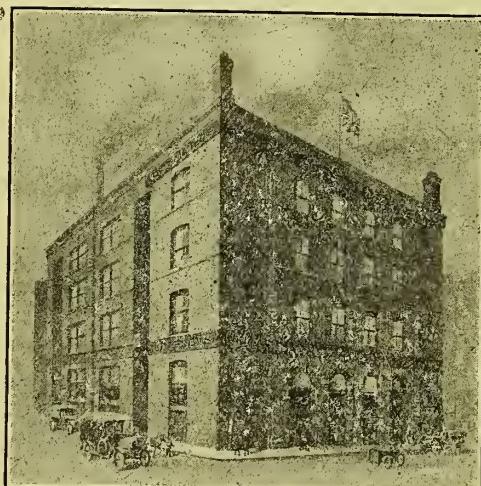
"CRYSTAL PALACE" MARKING-INK.—John Bond (London), Ltd., 75 Southgate Road, London, N. 1, call attention to the new prices of the "Crystal Palace" marking-ink, which chemists are particularly requested to note. The war increase is only  $\frac{1}{2}d.$  per bottle.

**HONEY.**—Spring & Co., Ltd., Brigg, advertise honey in this issue. The demand for honey is now very great, and the public are eagerly purchasing it as a sweetening agent. In cough-mixtures and other pharmaceutical preparations honey may be used in place of syrup.

**BARIUM SALTS.**—The demand for barium salts, and especially the dioxide, is great, but these salts made by the Rollin Chemical Co., Charleston, W. Va., can be supplied by the National Aniline and Chemical Co., 244 Madison Avenue, New York.

**RENSIN** is a milk-curdling ferment recommended as equal to rennet for cheese-making. It is a new product of the Armour Laboratories, which has been proved in practice. Particulars were given in the advertisement in last week's issue of Armour & Co., Ltd., Queen's House, Kingsway, London, W.C. 2.

**NEW PREMISES.**—Charles Midgley, Ltd., have transferred their head office to Mayes Street, Manchester, together with the wholesale department. This is a new building of imposing appearance, which gives the business elbow-room, and



will allow of still further expansion of the trade in medicated soaps, which are the special manufactures of the company. In a letter which we have received this week it is pointed out that there is plenty of scope for pushing the various medicated soaps, recent cases in point being the skin-troubles of munition-workers and of soldiers in the trenches. The system of district agents supplies a special incentive to chemists, and the products are good. The business at Exchange Street (St. Ann's Square), Manchester, is being continued apart from the wholsale premises.

**P.A.T.A. ADDITIONS FOR MAY.**—The following have been added to the protected list of the Proprietary Articles Trade Association: Blenosan capsules; Grasshopper ointment and pills; Lorimer-Marshall's preparations; Wiggin's nursery hair-lotion; Allen & Hanburys' castor oil; Demuth's "Carnate" nail-polish paste.

**THE WEST-END PHARMACY SUPPLY** (R. Rios & Co., 231 Regent Street, London, W. 1), who represent the Argentine Importation Society (M. Etchegoin, Stabili & Meoli, chemists and druggists, Buenos Aires) in London, inform us that in addition to the agencies for South America mentioned in the C. & D., May 19, they are agents for Robert Ferber, Ltd. (capsules), the Pure Russian Liquid Paraffin Co., Ltd., and Chas. Zimmermann & Co. (Chemicals), Ltd.

## New Books.

**Forster, Emily L. B.** *How to Become a Dispenser.* 7 $\frac{1}{4}$  x 4 $\frac{3}{4}$  in. 1p. 99. 2s. 6d. net. (T. Fisher Unwin, Ltd., 1 Adelphi Terrace, London, W.C.) [Miss Forster, who was recently lecturer to the Westminster College of Pharmacy, has written an interesting account of the prospects for women who wish to become dispensers. The syllabus of the Minor examination and the Apothecaries' Assistants' examination are explained. One of the twelve chapters is entitled "How to Start a Chemist's Shop." A list is given of thirty-four public establishments which employ women dispensers. The book is a useful guide to women dispensers.]

**Lovelace, B. F.** *Annual Chemical Directory of the United States.* 9 x 6 in. Pp. 305. \$5.00. (Williams & Wilkins Co., Baltimore.) [At a period when trading in chemicals and drugs between the United States and Britain is developing from day to day, the appearance of this, the first issue, should be welcome. The publishers say that "careful compilation has been made from direct and authoritative sources, as it has been our object to issue a Directory that will be comprehensive and accurate to a greater extent than any publication of this character hitherto undertaken." Actual users will be able to put this claim to a practical test. The Directory contains twelve chapters, the first 213 pages being devoted to names of makers of and dealers in all kinds of chemicals and allied products: then follow the makers of and dealers in apparatus, mechanical supplies for laboratories, industrial plant, etc. Other chapters embrace the names of professional chemical firms, laboratories, colleges, experimental stations, technical and scientific societies (American and foreign) chemical publications, a chemical survey of 1916, etc., the whole giving much useful information not usually found in a Directory of this character.]

**Muldoon, H. C., Ph.G.** *Lessons in Pharmaceutical Latin and Prescription Writing and Interpretation.* 8 $\frac{1}{4}$  x 5 $\frac{1}{4}$  in. Pp. 173. 6s. net. (Chapman & Hall, 11 Henrietta Street, London, W.C. 2.) [Mr. Muldoon is Latin instructor at the Massachusetts College of Pharmacy, Boston, U.S.A., and he states in the preface that his object has been to teach to students the essentials of Latin in a limited time, so that the pharmacist can correctly interpret those portions of the language which he encounters in the course of his profession. The book is divided into twenty-five lessons, and at the end of each lesson exercises in translation and transcription are set. The reasons for the use of Latin are first set forth, and it is interesting to state that these are: (1) It is a "dead" language, and consequently its vocabulary and the meanings of its words do not change; (2) it is a universal language among educated people; (3) the Latin names for drugs are more easily fixed than when the vernacular names are employed; and (4) the use of Latin helps to conceal certain undesirable information from the patient. The arrangement of type is helpful to the student, and the appendices, consisting of vocabularies and lists of abbreviations, make the book also of use for reference-purposes.]

**Tilden, Sir W.** *Chemical Discovery and Invention in the Twentieth Century.* 8 $\frac{1}{2}$  x 5 $\frac{1}{4}$  in. Pp. 487. Illustrated. 7s. 6d. net. (Geo. Routledge & Sons, Ltd., Broadway House, Carter Lane, London, E.C.) [Sir William A. Tilden, F.R.S., Professor Emeritus of Chemistry in the Imperial College of Science and Technology, and the first holder of the Jacob Bell Scholarship of the Pharmaceutical Society, has written a most engaging volume dealing with chemical progress during the present century. The work is divided into four sections as follows: (I.) Chemical Laboratories and the Work done in them; (II.) Modern Discoveries and Theories; (III.) Modern Applications of Chemistry; and (IV.) Modern Progress in Organic Chemistry. These subjects are treated in a most readable style, and convey the impression that the writer's knowledge is of great extent, as it is. There are about a dozen portraits of eminent chemists, that of the most eminent—Sir Wm. Crookes, O.M.—being used as a frontispiece. There are plenty of other illustrations, including a set of ten photographs of the chemical laboratories of the Imperial College of Science and Technology. It is more interesting to read than any novel.]

SCIENCE is of the very warp and woof of the web of human existence; ought we not to reckon with it officially, as it is called?—Professor D. Fraser Harris.

**TALC IN TABLETS.**—Mr. A. E. Parkes, F.I.C., states ("Lancet," 1917, I, p. 809) that talc is used rather indiscriminately in the manufacture of compressed tablets. He adds that authorities are agreed that its unnecessary and excessive use is objectionable.

## Observations and Reflections.

By Xrayser II.

### I Have Again to Thank an Unknown Correspondent

for an

appreciative and informative letter. One phrase in it, referring to "the recent doings of the Pharmaceutical Council," hardly, perhaps, meets the point of the criticism for which the writer thanks me. It is not so much the "doings" of the Council that I complain of as the mystery in which they are shrouded. The results of the Council's action (or inaction) we all of us know only too well, but of the action itself we know little; like that of the Ibsenian drama, it takes place, for the most part, out of sight; we have to imagine it. It is not our fault if sometimes we are over-suspicious of what takes place out of sight; that is the natural result of such secrecy. Take one point on which my correspondent, writing with interior knowledge, has a good deal to say—the administration of the Central Checking Bureau Fund. Mr. White tells us (according to your report) that the Society has not the control of this Fund; officially he is reported to have said that the Society does not provide it, and that figures connected with it cannot be given. It matters very little what his exact words were: either the Fund is controlled by the Society or it is not. If it is, why cannot the figures be given? If it is not, why isn't it? The Bureau works under direction from the Square; its stationery is headed "Pharmaceutical Society of Great Britain," etc.; telegrams relating to pricing business are to be addressed "Bremridge, London"; documents are signed.

### "On Behalf of the Pharmaceutical Society,"

and, in short, it is clear that if the Fund is not under the Council's control it is the only thing connected with the Bureau that is not. I ask again, Why the exception? Is it because the administration of the Fund will not bear even the amount of publicity accorded to other transactions of the Society? If the question is injurious, the fault lies with the mystery-mongers who are forcing us to ask it. If the Society does not provide the Fund, pharmacists do, and they have a right to know how it is used. We know at least that the checking done is inadequate in relation to its cost. Only 10 per cent. of the scripts are checked at all, and these only (I am told) for undercharges and for the larger amounts. No wonder my correspondent, remarking on these things, says, "I deplore the fact that the Society has mixed itself up with such a business."

### The Outstanding Fact

of our recent election is that, roughly speaking, half the pharmacists who possess the vote did not exercise it. We are thus faced with an alternative either side of which may well give us pause: either pharmacists are to this extent stupidly insensible to their own responsibilities and interests, or the Pharmaceutical Society, as a trade society, is a failure. If these men did not abstain through insensibility, it must have been because they despair of any good coming to them through the Society, than which, if they are intelligent people, no more damning indictment of the Society is possible. That so many pharmacists remain outside of it is bad enough, but that half those who belong to it regard it with indifference is ten times worse.

### The Disappearance of Glycerin

from pharmacy would be about as big a calamity as the cutting-out of syrups, which is apparently being threatened. Glycerin has not been used entirely for its sweetening properties, but its use as a harmless solvent of many drugs has been of immense service to pharmacists. As a household application for chapped hands it has always been popular, its virtue seemingly lying in its power of abstracting moisture from the tissues. The application of undiluted glycerin to the skin in such circumstances is intensely painful, but this is largely mitigated by adding an equal quantity of

water. The value of the medication lies in the power of glycerin to draw the serum to the surface, and the healing and antiseptic influence thus made available acts like a charm. So far as I am aware no other drug can adequately take the place of glycerin for this purpose.

### "Cash Chemist,"

says Dr. M. O. Forster, is an abominable expression, and from the point of view of the disinterested student of science there is something to be said in support of his opinion; but this "vile phrase" sticks, and will stick, for all that; nor would it be reasonable in us to give up a title which is the very palladium of our craft. And, it may be asked, since when has science been entirely disinterested? If we derive chemistry from alchemy, we are historically justified in regarding it as motivated in the main by the lust of gold; and if we go further back to the Greek *chymia* for the origin of our title of chemist we have certainly a better right to it, whether disinterested or not, than any other body of men. Moreover, "cash chemist," after all, only means one who demands cash down instead of waiting for some ulterior and less direct advantage. What moral difference is there?

### The Scarcity of Sugar,

which bears so hardly upon us pharmacists, is at least equally embarrassing to confectioners, for whom we may spare a little sympathy. In one respect they are worse off than we, for there is much ambiguity in the regulations affecting them. They may, for instance, use 15 per cent. of sugar in cakes, but only 10 per cent. in buns, which are only cakes of a smaller size; and none at all in scones, which are but cakes of a peculiar shape. Nor is this all. *Bun* is a name with different meanings in different places. In England, usually, it denotes a sweet, round cake of a size that can be held in the hand while it is being eaten, but in parts of Scotland it means the richest kind of currant-bread, and in the North of Ireland a round loaf of ordinary bread. In Lancashire, as I well remember, we used to call currant-bread *bun-loaf*. As for *scone*, it is thus defined: "A large round cake made of wheat or barley meal baked on a griddle; one of the four quadrant-shaped pieces into which such a cake is often cut, or a cake of this shape separately baked." What is the difference between such a cake and a bun? It might puzzle a lawyer to decide, but it is something to find that we are not the only tradesmen who need legal help in determining the meaning of the regulations imposed upon them.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

43/48. "Olympic" squares of	44/6. Munyon's Remedies:
washing-blue.	London address.
43/15. Riise's bay-rhum.	43/3. "Monetta" hair-dye.
44/3. "Spirella" bandages.	40/69. Flat morocco cases for
40/19. Jackson's arsenate of	homeopathic medicines.
lead.	

### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Aetic acid, 42/39	"Ozokerit," 16/52
"Ambrosial" shaving-cream, 37/61	"Ozonatine," 9/60
Corks (for Egypt), 22/51	Packer's tar soap, 30/23
"Corollin," substitute for washing-soda, 8/12	"Pectaline," 29/74
Dorin's Rouge, 30/23	Riccle's Alcool de Menthe, 24/44
Dubarry's bath-salts, 43/57	St. Jacobs' oil, 30/23
"Germolin," 30/24	Sallyco Water, 42/7
Glucose liquid, 11/40	"Sanagen," 8/27
Kruschen salts, 27/39	Ticket-writers, 39/40
"Laftogen," 27/38	"Tonalka" water, 7/15
Lanoline, 43/4	Trypsin, 20/58
"Miss Flirt" perfume, 28/30	"Typhoo Tips" Tea, 9/36
Morison's pills, 15/29	Vermorel's sprayer, 34/9
"Nargol," 15/30	"Victory" absorbent, 17/58
"Neosol," 20/59	Water-glass, 5/90
	Woodcock's pills, 30/23

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## Editorial Articles.

### The Supply of Raw Material:

FOR some time Germany has been seized with the difficulties which will confront that country at the conclusion of the war in obtaining supplies of raw materials for the resuscitation of her industries. In so far as these difficulties are a part of the just retribution which will overtake Germany for the wilful promotion of the war, no one need waste words on the matter. It is obvious, however, that Germany, in the urgency of her need, will be prepared to outbid other nations in her attempt to obtain vitally necessary raw materials. This course will necessitate a rise in the price of such materials the world over, and a consequent enhancement in the cost of manufactured articles. A study of the German newspapers at the present time is interesting on account of the discussions which are taking place as to the best way of meeting this situation after the war. One suggestion is that a year's reserve of raw material should be built up so that in the next war the industries can be continued without a break. It may be noted, in passing, that Germans, in looking forward to another war, must be convinced that they are not going to win the present war—a fact which should give some satisfaction to the Allies. The war reserve can, however, be dismissed as a fantastic idea, as it takes no account of the large amount of capital which would lie idle at a time when Germany will need very large credits if she is to pay her debts and regain but a small part of her lost export trade. The device of import syndicates is also suggested. These companies would purchase raw materials, and, after adding a fixed amount to cover expenses, would pass the materials on to the industries. The syndicates would be required to maintain a fixed minimum reserve, and their profits over and above a specified rate of interest would go into the Imperial treasury. The object of this suggestion is the abolition of private importers, it being maintained that a large saving would result if a central body did the purchasing and importing. The purchase of cheap raw material is at all times desirable for manufacturing-purposes, but with the much-depreciated money standard in Germany it is doubtful if the saving effected by confining the purchases to large syndicates will have any real effect to that end. It is doubtful also whether large syndicates could manage the huge responsibilities which a policy of centralised imports implies. The responsibility in matters of this kind is increased with the amount of capital involved, and purchases require to be made with much more deliberation than is the case in ordinary trade. This means that syndicates could not follow quickly the fluctuations of markets, which, in the case of raw materials specially subject to speculation, are always occurring. Trade is always compelled by competition to take advantage of every favourable turn of the market and to watch all fluctuations closely, while a monopoly with no competition to fear has not this incentive. The British Empire, it is recognised, has within it a sufficient variety of raw materials to affect in future the position of Germany, but unless the Empire supplies were restricted the sellers would doubtless follow the economic principle of selling in the dearest market. As all parts of the Empire are now more coherent than they have ever been before, it should not be an insoluble problem to find a method of conserving the natural resources for the use of the component parts of the British Empire and the nations at present allied with us in defending human liberties. It is a question which requires settling whether the policy of differential export taxes on the raw materials of the Overseas Possessions, which has been tried in the case of oilseeds, can be applied to all raw materials, thus automatically deflecting them in directions which would not benefit our enemies.

### French Import Prohibitions.

FULL PARTICULARS are now available of the restrictions regarding the importation of foreign goods into France and Algeria. The "Board of Trade Journal" contained on April 26 a full translation of the French Ministerial Decree of April 15, which provides as follows:

(1) A list of goods which may be imported freely into France and Algeria without previous authorisation in virtue of the provisions of Article 2 of the Decree of March 22.

(2) A list of goods which may be imported into France and Algeria only under special licence; and

(3) A list of articles the importation of which is to form the subject of a Special Decree.

The Decree provides that the prohibition of importation shall not apply to—

(a) Importations under the "temporary importation" régime, when the goods are subsequently to be re-exported.

(b) Transhipment operations in roadsteads and ports;

(c) Transit operations to neutral countries, governed by special agreements.

All the lists are long, and are divided into classes covering practically all kinds of materials. It will suffice to mention that No. 1 contains, under "medicinal vegetable substances," roots, herbs, flowers and leaves, barks, lichens, fruits and seeds which are allowed in free, while "vegetable oils and juices (saps)" include camphor, rubber, resins, exotic gums in natural state, vegetable waxes and fats. Under "dyes and tanning-materials" are turmeric, galls, saffron, sumach, valonia, and so on. The list of "chemical products" is lengthy, and covers, *inter alia*, crude and refined iodine, various mineral acids, citric, lactic, oxalic, tannic, and phosphoric acids, borax, potash, ammonium and lead salts, wood spirit, borax, chemical manures, etc. No authorisation is necessary for the importation of these. List No. 2 is devoted to articles which may be imported only by way of exception, and in virtue of special licences, granted after consultation with the "Comité des dérogations aux prohibitions d'entrée." It has twenty-four classes of goods, and includes spices (pimento, amomumis and cardamoms, cinnamon, cassia lignea, nutmegs, cloves, and vanilla); vanillin and its derivatives, mineral waters other than purgative waters, kieselguhr, liquid bromine, bromides and all bromine products, soap and other perfumery, prepared spices (mustard, sauces and other), wax and stearic acid. The articles in No. 3 list will form the subject of a special Decree. The list covers metals chiefly, and includes platinum, mercury, antimony, arsenic, crude cadmium, bismuth, and other ores of interest to chemical-manufacturers. Applications for importation of these will be dealt with by the "Commission interministérielle des bois et métaux," whose proposals shall be submitted for the approval of the Minister of Commerce and the Minister of Munitions, the decision to be confirmed by the Minister of Finance. The importation of goods which are not covered by the three lists is subject to the arrangements as to "contingents," and, consequently, such goods will be allowed to be imported up to the amounts fixed for each quarter under the conditions laid down by Article 3 of the Decree of March 22 (see C. & D., April 7, p. 43). This is where considerable trouble and vexation is likely to arise among importers of produce, as the fixing of the "contingents" will be a delicate matter among competing merchants. As a whole the chemical and drug trades do not appear to be unduly disturbed, but there is likely to be a certain hampering of movements and unsettlement until the various Committees get into their stride.

### Progress of Applied Chemistry.

WHAT promises to be a valuable series of annual reports on the progress of applied chemistry has been commenced by the Society of Chemical Industry. The first volume, covering 1916, has been issued at 3s. to members and 5s. 6d. to non-members. The plan that has been followed is to review each of the sections of applied chemistry as arranged in the "Journal of the Society of Chemical Industry," but it is acknowledged that the first volume has for various reasons fallen short of anticipation. The

manuscript of the reviews of the sections on fibres, dyeing, metallurgy, electrochemistry, and sugar; for example, did not arrive in time to be included in the book. As it is, the Report fills a volume of 335 pages and includes the following sections of special interest to our readers: Fine chemicals (by Dr. Pyman), oils, fats, and waxes (by Mr. Warburton), and photographic materials and processes (by Mr. Stori). It is somewhat of an undertaking to devise and bring out a new work of this character in war-time, but a good start has been made in filling the gap in the review of chemical arts not covered by the annual reports of the Chemical Society commenced in 1904.

### Customs and Excise.

THERE has been issued this week the annual Report of the Commissioners of Customs and Excise for the year ended March 31, 1916, but as so lengthy a period has elapsed since the events referred to in the Report occurred, the various details have to a large extent lost interest. It may be recalled that there were two Budget statements in 1915-16—viz., May 4 and September 21, 1915—and on the latter date the duties on patent medicines were doubled; duties on tea, cocoa, coffee, etc., were raised 50 per cent.; the sugar-duty went from 1s. 10d. to 9s. 4d. per cwt.; while for the first time since 1860 *ad-valorem* duties of 33½ per cent. were placed on a number of manufactured imports. There was a surplus on the year of 17,713,000/-, to which nearly all heads of duty contributed, but a considerable part of this surplus was due to fore-stalments—*i.e.*, clearances not made for current consumption, but in anticipation of increases in rates of duty. This practice has since been checked by powers exercised in advance of legislation. The actual receipts from the spirit-duties were 26,839,000/-, an increase of 1,565,000/- compared with 1914-15. The surtaxes on immature spirits produced 646,000/- in 1915-16, but this does not represent a net gain to the revenue, as the rises in price must to some extent have diminished consumption. The quantity of home-made and imported spirits received by makers for methylation was 9,601,990 proof gals. (1915, 7,499,690 proof gals.), of which 6,960,925 proof gals. was for industrial methylated and 264,975 proof gals. for mineralised methylated spirit, while the allowances paid to the methylators amounted to 85,676/-, against 60,763/- for 1915. The consumption of methylated spirit was much larger in 1916, being 6,060,570 bulk gals. (industrial, 4,320,083, and mineralised, 1,740,487), against 4,874,583 bulk gals. (3,103,362 industrial and 1,771,321 mineralised) in 1915. There was also a large increase in the quantities of pure spirit used in connection with arts and manufactures under the Finance Act, 1902, the amount so taken being 1,341,804 proof gals., against 779,765 proof gals. This is attributed to the requirements in connection with munitions of war, drugs, etc., for Government purposes. Full particulars of the patent-medicine stamp yields are given, which figures are published in our 1917 Diary. Altogether the revenue of the country was raised under favourable conditions through 1915-16, the high earnings of large sections of the working-classes helping much in this direction.

### Halazone

THIS is the name which Dr. H. D. Dakin and Dr. E. K. Dunham, of the Medical Research Committee, have given to *p*-sulphon-dichloramino-benzoic acid, which they recommend for the disinfection of drinking-water ("British Medical Journal," 1917, I., p. 682). The starting-point in the manufacture of halazone is *p*-toluenesulphonamide, obtained by the action of ammonia on *p*-toluenesulphon chloride. The last-named is a by-product in the manufacture of saccharin, and is used in making chloramine-T. The toluenesulphonamide is oxidised to *p*-sulphonamido-benzoic acid, and the latter substance on treatment with chlorine under suitable conditions gives the desired dichloramino acid. The manufacturing details are given in the original paper. The substance is made into tablets with an alkaline salt, sodium carbonate being as useful as any. A convenient formula for tablets weighing 100 to 105 mgms. is to use sulphon-dichloramino-benzoic acid 4 per cent., sodium carbonate 4 per cent. (or dried borax 8 per cent.), sodium chloride (pure) 92 per cent.

The acid is rubbed in a mortar with the dry salt and the sodium carbonate added subsequently. The mixture may be passed through a 40-mesh sieve. Lubricant or other addition is unnecessary. The strength of the tablets should be tested by dissolving in acetic acid and potassium-iodide solution, and titrating with sodium thiosulphate as already described (1 c.c. of N/10 thiosulphate = 0.00675 gram of the dichloramino acid). They must not be allowed to dissolve in water and subsequently titrated, as then decomposition occurs. The tablets should be stored in small amber-glass bottles. Tablets so prepared of the weight mentioned contain about 4 mgms. of the disinfectant, and are suitable for the sterilisation of a litre or quart of reasonably heavily contaminated water. In the case of extreme contamination a second tablet may be necessary.

#### Fruit-preservation without Sugar.

A CORRESPONDENT (p. 51) mentions his want of success in preserving fruit according to a method advocated last year, and he suggests that other chemists might give their experience of the same or other methods which do not involve the use of sugar. In this connection attention may be called to the use of chloroform and formalin for keeping fruit. The chloroform method, first published in THE CHEMIST AND DRUGGIST many years ago, is thus given in "Pharmaceutical Formulas":

"Fresh fruit is preserved in jars by means of chloroform. A thoroughly clean glass jar is selected for the purpose. A few drops of chloroform are placed on the bottom, then some cotton-wool and a layer of the fruit, more wool and fruit, and so on right to the top, more chloroform finally being put on and the jar well closed. Soft fruits are not suitable for this method of preservation, and a great deal of the success depends upon the packing, for if there is undue pressure at any part the cellular tissue is bruised and fruit spoilt. The chloroform simply provides an aseptic atmosphere round the fruit, but there is great difficulty in getting rid of the taste of chloroform, and formalin suits better."

It will be noted that the method is not always successful, in that the taste of chloroform persists, but, on the other hand, others who have employed this process speak of it approvingly. The Board of Agriculture published some time ago a method which consisted in sterilising the fruit by dipping it in diluted formalin (3 pints of formalin in 10 gals. of water.) In place of part of the sugar used in jam-making, glucose is now in an established position, and similarly honey may be employed, but the price of this last-named sweetening agent prohibits its use on a large scale. The neutralisation of the fruit acids with sodium bicarbonate is another suggestion having for its object conservation of sugar. In this case it is necessary to take care not to neutralise the whole of the acids, as the alkaline taste which would develop is far from pleasing to the palate.

#### Rhubarb-leaves.

AN excellent epitome of the published information on the uses of rhubarb has been given in "Nature," from which it appears that several cases of poisoning from rhubarb-leaves have occurred in the past. The plant was primarily cultivated in this country for the medicinal properties of the root until about the beginning of the nineteenth century, when a Mr. Myatt, of Deptford, made a market for rhubarb as a culinary plant. Methods of forcing rhubarb were subsequently devised, but the discovery of blanching is stated to have been made accidentally at the Chelsea Physic Garden in 1815. Decisive opinions as to the wholesomeness of rhubarb and rhubarb-leaves are not given, it being pointed out that the consumption of the leaf-stalks has been enormous, with comparatively few cases of illness resulting. The same remarks apply to the inflorescence and leaf-blades, except that these have not been nearly so extensively employed.

THE BADISCHE Co., of Ludwigshafen, state in their annual report that the plant at Christiansand for the manufacture of nitric acid from the air has been disposed of to a Norwegian syndicate.

## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

THE VENEREAL DISEASES ACT received the Royal Assent on May 24.

#### FEDERATION OF BRITISH INDUSTRIES.

It is announced by the Board of Trade that the Federation of British Industries comprises 355 firms; and 58 associations, and there are also some 2,500 associate members.

#### DAYLIGHT SAVING.

The Home Secretary informed Mr. Noel Buxton, M.P., last week that the question of advancing the time by a second hour during the period of longest daylight was considered by the Departmental Committee, but they reported adversely to the proposal. Very few suggestions in favour of this course were received by them, and they were of opinion that it would lead to inconvenience and confusion. The Government do not propose, therefore, to take any steps in this direction.

#### SUGAR-SUPPLIES.

Captain Bathurst, replying to Sir H. Dalziel in the House of Commons on May 25, said that a certain quantity of American granulated sugar has been purchased to meet the requirements of fruit-preserving, for which Cuban raw sugar is quite unsuitable. Supplies of Cuban raw sugar to wholesale distributors have been refused because, as has already been explained, the impurities in sugar of that description render it unsuitable for general consumption as a grocery sugar. It contains iron, and if strawberry jam were made with it it would turn it black.

#### JENA GLASS.

In reply to a question in the House of Commons, the First Commissioner of Works (Sir Alfred Mond) states: The description "Jena" undoubtedly formerly referred to glass coming from the town of that name, but since the outbreak of war the term has been generally recognised by firms who have been asked to quote for such glass as defining a glass possessing special heat-resisting qualities; in fact, three out of the five tendering firms, including one of the successful tenderers, struck the word "Jena" out of the specification. Having regard to the fact that the importation of the products of enemy countries has been prohibited by the Government, it is inconceivable that after nearly three years of war any firm could have been under the impression that enemy-made glass was required. [The question arose out of a tender for Jena glass asked for by the Board of Works.]

#### MORE BENGERS.

Mr. Walter Long (Colonial Secretary), in the House of Commons during the debate on the Representation of the People Bill, referred to Lord H. Cecil's remarks on Benger's Food (*C. & D.*, May 26, p. 39). He said:

"My noble friend who spoke yesterday told us a great deal about Benger's Food. I have not the same knowledge of Benger's Food which is, apparently, enjoyed by my noble friend, but since I read his speech I feel sure this particular form of diet must have something special to commend it, or it never would have attracted his attention. I have made inquiries about it. This is what I am told—and perhaps my noble friend will correct me if I am wrong: I am told that it is a food which contains wonderful digestive material; that it is extremely sustaining and extremely good for the constitution, and that a bowl of Benger's Food contains more nourishment than you will find in any other bowl of food four times the size. I do not know whether my information is correct, and I hope that the proprietors of Benger's Food will not take advantage of our advocacy of this particular article and say that we are living examples of its advantages. If I have to choose between Benger's Food as an article of diet and the very fiery liquor which is recommended to me by those able gentlemen outside who organise and control our machinery, I confess I would far rather live on Benger's Food on the recommendation of the Speaker's Conference than be guided by these outside gentlemen who regard this Bill with suspicion."

MRS. DESNOS, Chevening Road, Kensal Rise, London, the wife of a retired chemist, died on May 30 as a result of the plate of her false teeth lodging in her throat.

SIR GEO. H. SAVAGE in the "Lancet" suggests the growing of jalap in England. He has some of the plants in his garden in Hampshire, which produces each year a few tubercles.

COMMERCIAL AERONAUTICS.—A meeting was held in London on May 30 to discuss the possibilities of establishing after the war an air-service for the conveyance of passengers and the transmission of mails. The promotion of business which would follow such services was referred to.

## Association Affairs.

**Edinburgh.**—The annual meeting of the Edinburgh Chemists' Trade Association was held on May 24, Mr. Adam Duncan (Chairman) presiding. Fourteen new members were elected. It was agreed to adopt the minimum retail price-list issued by the "British and Colonial Pharmacist." Mr. G. Hall is to be nominated as Local Secretary of the P.A.T.A., *vice* Mr. V. Wright, resigned. The Treasurer's and Secretary's reports were adopted, the latter showing a membership of 103—the highest yet recorded. The following officers were elected: *Chairman*, Mr. James Dick; *Vice-Chairman*, Mr. John Muir; *Hon. Secretary*, Mr. W. W. Brown; *Assistant Secretary*, Mr. J. H. Tainsh; *Treasurer*, Mr. W. S. Glass; *Committee*, Messrs. Adamson, Duncan, Dundas, Hall, Harley, Kelly, Macpherson, Mitchell, and Nisbet. The question of chemists and military service was discussed and referred to the Committee. Donations were voted to the Benevolent Fund (two guineas) and the Orphan Fund (one guinea), and two guineas to the Fund for Limbless Soldiers. Mr. Duncan was thanked for his services as chairman.

**Harrogate.**—The annual meeting of the Harrogate and District Pharmaceutical Association was held on May 25, under the presidency of Mr. A. W. Wood. A large number of members were present. The reports of the Treasurer and Secretary were read and adopted. On the motion of the President, the loss Pharmacy had sustained in the death of Mr. MacEwan was placed on record. The following officers were elected: *President*, Mr. J. W. Harper; *Vice-President*, Mr. H. F. Illingworth; *Treasurer*, Mr. W. Simpson; *Auditor*, Mr. Lambert Foster; *Trade Secretary*, Mr. J. M. Dawson; *Hon. Secretary*, Mr. A. Mortimer; *Committee*, Messrs. A. W. Wood, A. Atkinson, T. E. Handford, and O. R. Windemer. The retiring officers were thanked for their services. A slight alteration was made in the rules so that chemists residing in the district, but outside the Ripon Parliamentary Division, could be elected members. A keen discussion took place on military matters concerning a number of assistants who are liable to be called to the Colours shortly.

**Hull.**—A meeting of the Hull Pharmacists' Association was held on May 29, at the Métropole, West Street, Hull, Mr. L. S. Selle (President) in the chair. Mr. Newton (the Treasurer) reported that he had made inquiries as to the cost of a river excursion on the Humber to Ferriby Sluice, and the charge would be 1s. 3d. per head for the use of the saloon. It was accordingly agreed to make arrangements for June 14, an inclusive charge for the trip and a meal to be arranged. For the evening an innovation was introduced in the form of a scientific lecture by the Rev. L. J. Baggott, M.A. (Cantab.), the curate of Drypool Church (St. Andrew's), this being, as the President remarked, the first occasion in the fifty years' history of the Association when it had been addressed by a clergyman. The subject of his paper was *The Determination of Sex in the Embryo*. Mr. Jones proposed a vote of thanks to the lecturer, Mr. E. Haworth Earle seconded, and Mr. J. W. Chapman and the President supported. Mr. Baggott replied. Some discussion followed on the desirability of having a local course of lectures on bacteriology, and the President said he thought they could guarantee twenty students. The matter was left over for report and discussion at the next meeting.

**Irish Assistants.**—At a Committee-meeting last week of the Irish Chemists' Assistants' Association a resolution of sympathy was passed on the death of Mr. Peter MacEwan, F.C.S., Editor of THE CHEMIST AND DRUGGIST, who, it was stated by the mover (Mr. J. Hogan, L.P.S.I.), was ever-ready to champion the cause of the assistant and had proved himself a good friend of the struggling pharmacist. The trade owed a debt of gratitude to Mr. MacEwan, and respectful condolences were tendered to the bereaved relatives.—The Dublin Centre met on May 24, Mr. J. Hogan, Ph.C., in the chair, when the position of assistants was further discussed and the action of Mr. Byrne, M.P., was warmly commended. The President counselled moderation, and was hopeful that the status of assistants would soon be improved. The Vigilance Committee reported on the steps taken in the matter.

**Lancashire.**—At a general meeting of the North-East Lancashire Chemists' Association on May 23, the President (Mr. R. Lord Gifford, J.P.) mentioned the fact that the Privy Council had given its approval to the inclusion of "Diachylon" in Part I. of the Poison Schedule, and that on and after May 27 it must be signed for by the purchaser, who must be known to the seller. Arrangements were made for a service of chemists to be open for dispensing medicines

on Whit Monday and Tuesday from 6.30 to 7.30 p.m. A resolution of congratulation was passed to Mr. W. H. Grimshaw on his election as a member of the Blackburn Town Council.

**Leeds.**—The annual meeting of the Leeds Chemists' Association took place on May 23 at the Grand Central Hotel, Mr. N. N. Armitage (President) occupying the chair. Mr. H. Gillegan (Hon. Secretary) submitted the forty-ninth annual report, showing a membership of 110 ordinary and four honorary. After references to the interesting nature of the subjects discussed at the year's meetings the report drew attention to the new rule that from the date of that annual meeting membership and associateship be open to no person who is not a member of the Pharmaceutical Society of Great Britain or a student-associate of the Pharmaceutical Society. It was recognised that the rule would cause the loss of a few members, but it was held that it was absolutely fair and right in view of the general policy of the Association. The report was adopted. The annual balance-sheet showed a credit balance of 40*l.* 16*s.* 8*d.*, and was adopted. All the officers of the Association were re-elected for twelve months, Mr. N. N. Armitage being *President*, Messrs. J. H. Beacock and G. W. Overend *Vice-Presidents*, Mr. H. O. Eaton *Treasurer*, Mr. H. Gillegan *Secretary*, and Mr. G. Jackson *Auditor*. The *Council* consists of Messrs. J. Hayes, C. E. Marriott, M. E. Murray, W. D. Pollett, H. Roberts, A. Rothstein, F. Pilkington, Sergeant, H. Stringer, and A. Winterbottom.

**London (W.).**—The annual general meeting of the Western Pharmacists' Association was held at the Restaurant Frascati on May 24. Mr. W. Wilkinson presided, and there was a fair attendance. A report by the Secretary (Mr. W. Shirtliff) on meetings of the London County Executive and the London Pharmaceutical Committee gave rise to a discussion on the minimum retail price-list and the surplus stock list, and it was decided to issue the surplus stock list quarterly to each member at the expense of the Association. The Treasurer's report, read by Mr. A. R. Procter, showed that the Association was in a flourishing condition, and after the report had been adopted the sum of ten guineas was voted to the Pharmaceutical Society, half to be devoted to the Benevolent Fund and half to the Parliamentary Fund. The Secretary's report recorded a good session's work. The membership now totalled 397. The report was formally adopted. On the proposition of the President the meeting decided that a letter of condolence should be sent to the relatives of the late Mr. Peter MacEwan. Votes of thanks to the retiring officers were passed and duly acknowledged. The retiring members of the Committee were re-elected, and Messrs. Ellerington and Martin were re-appointed Hon. Auditors. Messrs. Melhuish, Allen, and Shirtliff were elected representatives on the London County Executive, and, with Messrs. Noble and Tocher, are to represent the Association on the London Pharmaceutical Committee.

**Northumberland.**—The County Executive met at Newcastle on May 22, when the scheduling of diachylon was discussed, and it was decided to fix a minimum charge of 3*d.* for all sales of "Dale's plaster" and similar preparations. The Emergency Committee reported on the Venereal Diseases Bill, and regretted that Mr. Glyn-Jones's amendment had been lost, deplored the injustice to pharmacy wrought by permitting doctors to compound and sell the remedies.

**Nottingham.**—The annual meeting of the Nottingham Pharmaceutical Association was held last week, Mr. C. E. Reynolds (Vice-President) taking the chair, in the absence of Alderman R. FitzHugh. The report of the Council mentioned the death of the late Secretary (Mr. C. F. Carr) while on active service in France. The Association now consists of eighty members, one hon. member, and two associate members. There was a balance of 1*l.* 2*s.* 2*d.* on the year's working. The President, Vice-President, Secretary (Mr. A. Norwebb), Assistant Secretary (Mr. E. H. Turton), and Treasurer (Mr. H. Middleton), were re-elected, as were also the Council, on which Mr. E. C. Carr was appointed, in place of the late Mr. A. Middleton.

**Notts County.**—The annual meeting of the county Association was held at Mansfield on May 16. Mr. B. Adams in the chair. The reports of the Secretary and the Treasurer were adopted, the latter showing a balance in hand of 1*l.* 2*s.* 6*d.* It was agreed to send a donation of three guineas to the Benevolent Fund in addition to the annual subscription of two guineas. The officers for the year were elected as follows: *President and Treasurer*, Mr. B. Adams (Mansfield); *Vice-President*, Mr. C. C. H. Cadge (Bingham); *Secretary*, Mr. A. H. Bell (Mansfield). The question of assisting the Panel Committee in dispensing was left to a Sub-Committee.

**Royal Institution.**—The subject of the Friday evening discourse on May 25 was "Breathlessness," and the lecturer was Mr. J. Barcroft, M.A., F.R.S. In proceeding to consider the subject of breathlessness, the first step is to find whether a person is out of breath, and the best thing to do in that case is to measure the breath. This is done by breathing into a bag for a given time, and then measuring, by means of an ordinary gas-meter, the contents of the bag. The lecturer proceeded to do this, and breathed at his normal rate, thirty-two inspirations per minute, into the bag, and the breath when measured was found to be about 15 litres; that is to say, 15 litres of air had passed through the lungs in one minute. The physiological way of becoming out of breath was to do work, and the lecturer illustrated this by lifting a cylinder weighing  $\frac{1}{2}$  cwt. six times, after which the breath was again measured. This time there were only thirty inspirations in the minute, but the volume of breath amounted to nearly 45 litres. This showed, therefore, that it was quite fallacious to rely on the number of respirations to determine whether a man was out of breath. Blood should have exactly the right amount of acid or alkali, and a very little change produces large rhythmic alterations. The addition of acid to the blood causes the breath to go at a quicker and increased rhythm, and every time a man does work, such as lifting the cylinder, a little acid passes into the blood. Work is measured by the amount of weight lifted, and every time we lift our foot the height of the carpet, we produce 1500 c.c. of CO<sub>2</sub>. The question arises, Why are we not always out of breath? There is only 5 litres of blood in a normal body, but 70 litres of liquid altogether, and when CO<sub>2</sub> is produced it diffuses rapidly through the 70 litres instead of only 5 litres. Owing to this fact, definite physical work can be done without getting out of breath. CO<sub>2</sub> is exhaled by the lungs almost as fast as it is produced, but lactic acid is not got rid of, and accumulates in the blood. One person may produce more lactic acid than another, and this was illustrated by a chart showing the amount of acid produced in two climbers. After ascending 10,000 feet, the blood of one showed 0.42 gram of lactic acid per litre, and of the other 0.8 gram. Some men who lead sedentary lives go through life with less acid in their blood, and if these men were put on violent exercise they would break down, while another man with excess of acid keeps panting as if he had chronic asthma.

## Drug-trade Appeal Fund.

The annual meeting of the subscribers to this Fund was held on May 30 at St. Bride Institute, London, E.C. Mr. L. O. Johnson (Fassett & Johnson) was in the chair. There were also present Messrs. J. G. Atkinson (Norwood), Mr. C. A. Hill (British Drug Houses), Mr. G. J. Knight, Mr. T. Maben (Parke, Davis & Co.), Mr. E. Pickering (F. Newbery & Sons), Mr. F. W. Truman, Mr. W. P. Want, and Mr. W. Johnston (Secretary). Mr. Walter Hills wrote resigning his position as one of the Trustees of the Fund, intimating that he wished his resignation to be final. This was accepted, with grateful thanks for Mr. Hills's past services. The annual report stated that no call had been made on the Fund during the year, the financial condition of which continues satisfactory. The amount of the Fund is now 5631, 12s. 1d. It was mentioned that a donation of 10/- had been received from Howards & Sons, Ltd. Three of the Trustees have died during the past year—Mr. Chas. Umney, Mr. C. B. Allen, and Mr. C. J. G. Bunker—sympathetic reference being made to the loss, and appreciation expressed for the services they had rendered. Discussing the financial section of the report, Mr. Truman thought there would almost certainly be some appeals in connection with the latest regulations as to the use of spirit, which was forbidden for perfumes and essences. There is no definition as to what an essence is. No more lavender-water could be made, and permits for spirit could only be obtained if it were to be used for medicinal purposes. Mr. C. A. Hill said that all spirituous preparations are classed as medicated or non-medicated, and if once classed as non-medicated it remains so even if a doctor prescribes it. The election of Trustees then took place as follows: Messrs. W. F. Gulliver, L. O. Johnson, and T. Tyre were re-elected, and the following were elected to the other four vacancies: Messrs. J. G. Atkinson, J. F. Harrington, C. A. Hill, and G. J. Knight. A vote of thanks was awarded to the Trustees and Secretary for their services during the past year.—At a subsequent meeting of the Trustees, Mr. Thos. Tyre was elected Chairman, Mr. W. T. Gulliver Treasurer, and Mr. W. Johnston Secretary, for the ensuing year.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Doctor Removed from the Panel.

The National Health Insurance Commission (England) inform us that, as a result of the inquiry held at Newbury on April 19, with regard to Dr. Robert Gill Wyllie, M.B., C.M., of 92 Northbrook Street, Newbury, it has been decided that his continuance on the medical list of the Berkshire Insurance Committee would be prejudicial to the efficiency of the medical service of the insured. They have accordingly, in pursuance of the provisions of Section 15 (2) (b) of the National Insurance Act, 1911, and of the Regulations made thereunder, decided to remove the doctor from the panel as from June 8 (see *C. & D.*, April 28, p. 39).

### Reports from Local Centres.

#### ENGLAND.

**Birmingham.**—Difficulties of medical service are becoming greater. The number of doctors on military service on the panel at present is sixty, the number of insured persons on their lists being 58,189. There is a proposal to establish a central surgery, to be conducted by panel doctors. Visits by doctors can at present only be made if notified before 10 A.M. each day.

**Bournemouth.**—The Insurance Committee have received a letter from the South-Western Joint Pricing Committee, stating that the net cost of pricing prescriptions for the South-Western District for the year ended December 31, 1916, was 1,892l. 10s. 10d. The total number of prescriptions dealt with up to September 30 was 1,346,408, of which 51,122 were in respect to Bournemouth Committee, whose proportion of the cost was 71l. 2s. for the year. The Committee decided to apply to the Commissioners for a grant in respect to the increased cost of pricing prescriptions under the new system. Chemists' accounts are to be paid as soon as the figures are received from the Pricing Bureau. The accounts paid since the last meeting included 589l. 9s. 1d. in respect of the Drug Fund.

**London.**—The Insurance Committee met on May 24 at the County Hall, Spring Gardens, Mr. J. Howarth (Chairman) presiding. Payments of chemists' accounts were sanctioned for 1914, 132l. 10s. 3d.; 1915, 40l. 12s.; 1916, 1,279l. 14s. 4d.; 1917, 9,350l. 14s. 7d. The General Purposes Sub-Committee approved of the proposed Ministry of Health, and recommended that the Government should be urged to appoint a representative Committee to investigate and advise as to the best method to be followed in the matter. After some discussion the recommendation was adopted.

**Warwickshire.**—The Pharmaceutical Committee met at Leamington Spa on May 24, Mr. Lester presiding, when the Clerk reported the elimination of glycerin and sugar from the formulary excepting for mist. ferri perchlor. The Central Checking Bureau's report showed considerable under-pricing for four months of the year, and the Clerk is to try to get a further payment for that period. The position in regard to military service was also considered.

#### SCOTLAND.

**Edinburgh.**—A largely attended meeting of Edinburgh and Leith panel chemists was held in the Goold Hall, St. Andrew Square, on May 14. Mr. Boa, Chairman of the Edinburgh Pharmaceutical Committee, presided, and the Secretary of that Committee acted as Clerk to the meeting. Much dissatisfaction was expressed regarding the conditions of service generally, but the main grievance was the total disallowing of the price for certain proprietaries which had been paid for up to the end of May 1916. The Clerk stated that on June 12, 1916, the Insurance Committee published a circular, without even consulting the Pharmaceutical Committee, peremptorily stating that from that date, if a proprietary were prescribed, no matter what was supplied, the price would be disallowed. He explained that so far protests by his Committee had been in vain, and as a matter of fact 422 articles either wholly or part of a prescription had been totally disallowed between June and December 1916. The attitude adopted by the Insurance Committee was that if a proprietary were prescribed it was the duty of the chemist to have it sent back to the doctor for substitution of the name of the equivalent and extra initialling, and that no correction by the chemist would be recognised. The meeting was unanimously of the opinion that this attitude was nothing short of high-handed tyranny on the part of the Edinburgh Insurance Committee, especially as the Leith Insurance Committee, on whose panel the majority of the Edinburgh chemists also were, paid the price of the

chemical equivalent or the B.P.C. equivalent of any proprietary preparation prescribed. The Clerk was instructed to intimate to the Edinburgh Insurance Committee that the present conditions would not be tolerated. Dissatisfaction was also expressed with the chemists' representation on the Drug Accounts Committee.—It was reported at a meeting of the Edinburgh Insurance Committee that 480*l.* had been paid to chemists in respect of the accounts for March last. With regard to the shortage of sugar, the Commissioners had written saying that they did not propose to take any action to assist chemists, as the Ministry of Munitions did not propose to release sugar for dispensing-purposes. It was decided to advise doctors that instead of prescribing Easton's syrup a watery solution without the sugar-content might be substituted. The Pharmaceutical Committee suggested, with reference to hypodermic tablets, that tubes containing tablets of the drugs specified in the Emergency List in any of the smaller sizes should be paid for, the chemist to give the name of maker, size, and cost-price; but the Insurance Committee, in view of the approval of the Emergency List by the Commissioners, could not adopt the Pharmaceutical Committee's suggestion. With regard to the form in which a doctor had ordered, *inter alia*, one roll of 1-in. zinc-and-rubber adhesive plaster, and the chemist had marked the form "Charge patient for above," the chemist had acted under a misapprehension, and had promised to refund the amount he charged the insured person on condition that he be paid by the Committee at Tariff rates. The Pharmaceutical Committee intimated that argyrol, boroglyceride, liq. carb. deterg., tabloids, and vaseline should be paid for as from January 1, but the Insurance Committee reaffirmed its decision to disallow all proprietaries.

#### Prices for May

The fourth appendix to the Drug Tariff was issued recently. Twenty-eight drugs have been altered in price, twelve being lower and sixteen higher; five appliances have been advanced. Particulars of prices for glycerin asked by wholesalers are desired, so as to secure protection:

Name	oz.	dr.	s. d.	Name	oz.	dr.	s. d.
Acetanilid. ....	0 4 $\frac{1}{2}$	0 1		Pot. iodid. ....	1 4 $\frac{1}{2}$	0 2 $\frac{1}{2}$	
Acetomorph. hyd. 6s. 6d. dr., 2d. gr.				Pot. permang. ....	1 5 $\frac{1}{2}$	0 2 $\frac{1}{2}$	
Acid. acetylal. ....	2 1 $\frac{1}{2}$	0 4		Quin. hydroch. ....	6 4	0 11	
Acid. benzoi. ....	4 5 $\frac{1}{2}$	0 8		Quin. hyd. acid. ....	7 8 $\frac{1}{2}$	1 1 $\frac{1}{2}$	
Acid. salicylic. ....	0 7 $\frac{1}{2}$	0 1 $\frac{1}{2}$		Quin. sulph. ....	5 2	0 9	
Adeps benz. ....	0 2 $\frac{1}{2}$	0 0 $\frac{1}{2}$		Resorcin. ....	12 7 $\frac{1}{2}$	1 10	
Adeps lanai hyd. ....	0 3 $\frac{1}{2}$	0 0 $\frac{1}{2}$		Salicin. ....	4 0	0 7	
Ammon. brom. ....	0 7	0 1		Salol. ....	1 3 $\frac{1}{2}$	0 2 $\frac{1}{2}$	
Atrop. sulph. 30s. 10d. dr., 7 $\frac{1}{2}$ d. gr.				Sodii henz. ....	3 6	0 6	
Betaacain hydroch. 14s. 8 $\frac{1}{2}$ d. dr., 4d. gr.				Sodii hrom. ....	0 4	0 1	
Butyl chlor. hyd. 11 1 $\frac{1}{2}$ d. 1 7 $\frac{1}{2}$ d.				Sodii iodid. ....	2 0	0 34	
Calcii lact. ....	2 0	0 3 $\frac{1}{2}$		Sodii salicyl. ....	0 9 $\frac{1}{2}$	0 1 $\frac{1}{2}$	
Cocain. hyd. 7s. 11d. dr., 2d. gr.				Sulphonhal. ....	5 4 $\frac{1}{2}$	0 9 $\frac{1}{2}$	
Croesot. carb. ....	7 1 $\frac{1}{2}$	1 2		Syr. glyco. co. ....	0 3 $\frac{1}{2}$	0 0 $\frac{1}{2}$	
Ext. belladon. liq. ....	1 7	0 3		Ung. gall. c. opio. ....	1 8	0 3	
Ext. cannab. ind. 13. 8 $\frac{1}{2}$ d. dr., 1 $\frac{1}{2}$ d. gr.				Ung. hydrarg. ....	0 5	0 1	
Ext. cas. sag. sic. ....	0 8 $\frac{1}{2}$	0 1 $\frac{1}{2}$		Ung. hyd. ammon. ....	0 3 $\frac{1}{2}$	0 0 $\frac{1}{2}$	
Ext. opii sic. ....	10 9	1 6 $\frac{1}{2}$		Ung. hyd. co. ....	0 4	0 1	
Ferri et quin. cit. ....	2 3	0 4		Ung. sulph. ....	0 2 $\frac{1}{2}$	0 0 $\frac{1}{2}$	
Guaiacol carb. ....	18 8	2 8		Ung. zinc. ....	0 2 $\frac{1}{2}$	0 0 $\frac{1}{2}$	
Hexamin. ....	0 6 $\frac{1}{2}$	0 1		Vin. ipecac. ....	0 3	0 0 $\frac{1}{2}$	
Iodium ....	1 9	0 3		Bandages (weight to be calculated without paper):			
Lin. meth. sal. co. ....	0 10 $\frac{1}{2}$	0 1 $\frac{1}{2}$		Domette, 2 $\frac{1}{2}$ lb., 15oz., 9d. each,			
Lin. opii ....	0 6 $\frac{1}{2}$	0 1		Do., 3in., 18oz., 11d. each.			
Malourea ....	14 0	2 0		Unmedicated lint, 2s. 11d. lb.			
Ol. morrhua. ....	3s. 4d. imp. pint			Sal alembroth lint, 3s. 4d. lb., 4d. oz.			
Ol. santal. ....	5 10	0 10		Cotton-wool (interleaved) in pkts., 1-oz., 2 $\frac{1}{2}$ d.; 2-oz., 4d.; 4-oz., 7d..			
Paraldehyde. ....	1 9	0 3		8-oz., 1s.; 1-lb., 1s. 9d.			
Phenacetin. ....	10 6	1 6					
Phenolphthalein. ....	10 6	1 6					
Pot. brom. ....	0 8 $\frac{1}{2}$	0 1 $\frac{1}{2}$					

## "Alexandrian" Senna.

FOR some years past the Alexandrian senna of commerce has presented characters that have puzzled not only Mincing Lane experts but pharmacognosists. The smaller varieties of the drug in particular have appeared so intermediate in character between Arabian and Sudan senna that it has been difficult to say to which description they belonged. Dealers in the drug, however, are well aware that the term "Alexandrian" as applied to senna is as much a misnomer as the terms "Turkey" myrrh and "Turkey" rhubarb. The name Alexandrian has reference only to the place of export. The leaves of *Cassia acutifolia*, Delile, officially described in the B.P. as Alexandrian senna, are produced only in the Sudan, and should be correctly described as Sudan senna. The *Cassia angustifolia*, Vahl, which yields the wild Arabian (as well as the cultivated Indian or Tinnevelly senna), is collected in Arabia and

North Africa, and used to be forwarded before the war from Yeddah or Jiddah, a port on the Red Sea coast near Mecca, to Suez and Alexandria. The bulk of the crude Sudan senna, *Cassia acutifolia*, up to 1913 was forwarded from the exporting centres of Khartoum and Omdurman to Alexandria and Suez and cleaned there. It consists as a rule of about 50 per cent. of good leaves and 36 per cent. of stalks, and the remainder of stones, seeds, and foreign matter. Before the war it was known to merchants that for many years the so-called Alexandrian senna as exported was mixed with 50 per cent. of Arabian senna. This was carried out by German agents domiciled at Khartoum, who then controlled the bulk of the senna-trade. After the outbreak of the war the supplies of Arabian senna were stopped, with the result that the available supplies of Sudan senna were very small, and it was then that a new form of adulteration was practised, the less active leaflets of *Cassia obovata*, Collad., known in the senna-trade as "dog" senna, being introduced into the senna-siftings, as their obovate shape precluded the possibility of their passing unnoticed among the whole leaves of *Cassia acutifolia*, which are lanceolate in shape. Last year supplies of Arabian senna became again available, owing to the declaration of independence by Arabia. During the period when the Arabian senna was stopped for the time being Sudanese merchants commenced the cleaning of the crude senna at home, and the Sudan Government attempted to stop the adulteration by issuing an order under which the importation of Arabian senna was prohibited, as well as the admixture of Arabian and dog senna (*C. obovata*) with the Sudan senna. In spite of this the Yeddah merchants are still sending the Arabian senna to Italian North Africa, whence it is forwarded to the Sudan, as it is not considered to be good policy to refuse admittance of raw materials exported from the ports of Allies. The only way to prevent the adulteration is for buyers to insist that the Sudan senna should in future be sold under the name of Anglo-Sudan senna, with a guarantee that it is an unmixed article free from the leaflets of Arabian and dog senna. The admixture of the Arabian senna with the Sudan whole-leaf senna is still practised, but the leaves of the *Cassia obovata* are broken up and mixed with the siftings, and are then not easily detected. But occasionally a small leaflet passes through in sifting, and is then quickly discovered by its obovate shape, and is proof that the "dog" senna has been used for the purpose of adulteration. This is of the more importance that siftings are naturally used for medicinal preparations, as they are not fitted by appearance for retail sale. At the present time it is known that considerable shipments of the adulterated senna are on their way to this country. For much of the above information we are indebted to Mr. A. Joenssen, whose firm is cultivating the *Cassia acutifolia* in the Sudan, and applying scientific knowledge to its cultivation, collection, and drying. Mr. Joenssen has had analyses made of numerous samples, and has furnished us with the following table of results, which indicates the relative value of the wild, cultivated, Arabian, and "dog" senna:

#### Senna.

All percentages are calculated on the dried drug.

Description	Alcohol extract per cent.	Water extract per cent.	Oxymethylanthraquinones, per cent.		
			Free	Com-bined	Total
Alexandrian whole leaf ...	35.50	48.98	0.219	2.390	2.609
Alexandrian half leaf ...	25.54	46.77	0.124	2.217	2.341
Alexandrian siftings ...	25.50	48.39	0.533	2.385	2.918
Alexandrian mixed ...	23.80	46.04	0.578	2.142	2.720
Average ... ...	24.8	46.1	0.363	2.28	2.65.
Cultivated senna leaf ...	21.6	44.3	0.155	3.85	4.005
Cultivated senna siftings ...	20.5	42.7	0.155	3.79	3.945
Cultivated senna stalks ...	10.4	19.3	0.032	1.42	1.452
<i>Cassia obovata</i> ...	23.7	37.6	0.125	3.61	3.815
Arabian low grade ...	21.87	39.46	0.453	2.143	2.596
Arabian better grade ...	24.55	40.11	0.239	2.280	2.519
Arabian crushed ...	24.19	41.74	0.488	2.368	2.858
Arabian good grade ...	26.49	42.77	0.374	2.018	2.392
Average ... ...	24.3	41.0	0.39	2.20	2.59.

We also dealt with this subject in our issue of February 27, 1915 (p. 63), when we gave further particulars in regard to the adulteration of so-called Alexandrian senna.

## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

### 42 Cannon Street, E.C. 4, May 31, 5.30 p.m.

THERE has been a holiday tone about the markets this week and trading is mostly for current requirements. Shipping difficulties remain acute in view of the scarcity of freight, and many export orders are being delayed on that account and congestion at the docks. There appears to be little going forward to neutral countries, especially Scandinavia and Holland, while similar troubles prevail in the United States, where imports and exports of chemicals and drugs appear to have fallen off considerably, due to uncertainty as to Government action and freight troubles. Changes in values have been few since our last report with practically nothing of outstanding interest. A few of the essential oils like American peppermint, French lavender, neroli, and camphor oils are either firmer or dearer. Japanese oil of mint is still selling chiefly to arrive. Russian ergot has been dealt in more freely of late, with Spain asking higher prices. Chamomiles are still very dear and likely to be so. Ipecacuanha is firm and in fair demand. Lycopodium has been dealt in at easy rates, but holders are now firmer; extreme prices have been paid for valerian and colchicum. In fine chemicals there is still an upward tendency, and as it is becoming recognised that the war will now be prolonged there is likely to be a more general demand, and under present conditions this means increased values. A higher market is noted in vanillin and chloral hydrate, and among firmer products are aspirin, barbitone, cocaine, hexamine, pyrogallic acid, and hydroquinone. Business in quinine is still suspended.

Higher	Firmer	Easier
Camphor oil	Aspirin	Benzoic acid
Chloral hydrate	Barbitone	Gallic acid
Lavender oil (Fr.)	Cocaine	Soda benzoate
Vanillin	Ergot	Turpentine
	Hexamine	
	Hydroquinone	
	Peppermint oil (Amer.)	

The drug-auctions will be resumed next Thursday, June 7.

### Cablegram.

NEW YORK, May 31.—Business in drugs is fair. Peppermint oil in tins is dearer at \$2.25, and the following have also advanced: Cartagena ipecacuanha to \$2.25, elecampane-root to 8½c., copaiba to 85c., cream of tartar to 48c., and tartario acid to 77½c. per lb.

ANISE OIL, STAR.—Sales for June-July shipment have been made at 3s. 1½d. per lb. c.i.f. terms.

ASPIRIN.—With the improvement in salicylic acid, it is being recognised that aspirin must also follow, and we believe it would be difficult to purchase from English makers for forward delivery at the prices which have been ruling, there being a disposition either to hold off the market or ask more money. Fair current spot value is 14s. per lb.

BARBITONE is rather dearer at from 110s. to 115s. per lb.

BROMIDES are in slightly better demand, but prices are substantially unchanged. Sodium is still the cheaper salt relatively, and potassium is, if anything, tending dearer at 6s. 3d. to 6s. 6d.; soda is 2s. 6d. to 2s. 9d.; and ammonium 3s. 3d.

CAMPHOR OIL.—Nothing appears to be available on the

spot, while to arrive brown is quoted at 52s. and white at 55s. c.i.f. The U.S. appears to have absorbed large quantities from Japan of late.

CASHEW-NUTS.—Slow of sale at the moment, with good sound Bombay offering at 80s. on the spot.

CASSIA OIL.—Sales for June-July shipment have been made at 4s. 1d. per lb. c.i.f.

CHAMOMILES.—Good white French offer at 420s. per cwt., and off-colour Belgian at 350s. on the spot

CHLORAL HYDRATE is rather dearer at 8s. per lb. net in bond, and will probably go still higher.

CITRIC ACID has spot sellers at 3s. 6d. per lb.

CLOVES are steady but quiet, with sellers of fair Zanzibar on the spot at 11d.; for June-August delivery there are buyers at 10½d., and to arrive, March-May shipment value is 10½d. c.i.f.

COCAINE is now worth from 27s. to 27s. 6d. per oz. net for hydrochloride on the spot.

COD-LIVER OIL.—Our Bergen correspondent writes on May 21 that the results of the Finmarken cod-fishing are declining instead of improving. Last week gave little more than one-quarter million of fish, and the total for all the cod-fisheries is now as follows:

	1914	1915	1916	1917
Catch of cod (millions) ...	68.6	58.4	46.4	23
Yield of c.l.o. (hect.) ...	50,600	47,600	54,600	33,000
Liver for "raw" oils (hect.) ...	9,500	7,800	5,000	3,500

Certain statements in the Norwegian papers regarding the Finmarken fisheries are of special interest. "Tidens Tegn" (April 22) reports a discussion in the Storting on the fishery question in Finmarken, from which it appears very uncertain what Germany's intentions are—whether she intends to stop the fishing altogether by her U-boats, or whether she has some other plans. "Verdens Gang" (April 28) publishes a long letter from its Finmarken correspondent in which he states that everything is in readiness, and there are plenty of fish, but that no fishing has yet been done, and no fishermen have arrived from other districts. But why, he asks significantly, does Germany send up stores of petroleum, salt, coal, fishing-gear, etc.? The probable answer is, he says, that she wants to get as much fish back as possible. He adds that every fishing-boat will be able to get German fishing-gear in return for delivering fish. [The indications point to the possibility of a scheme to frustrate the operations of the British Purchasing Agency and capture the whole Finmarken catch for 1917. It may not be generally known that since August 1916 maximum prices were fixed by the Norwegian Government for the 1917 production of fish and cod-liver oil, and at that period the British Purchasing Agency was established in Norway to buy all that offered at the maximum prices. It is understood that the purchases of cod-liver oil by the British Purchasing Agency have been small owing to the poor catch and few offers, but of fish fair quantities have been acquired.]

COPPER SULPHATE is unaltered, with a fairly good demand for home agricultural use, but export business is being held up by the withholding of permits.

CREAM OF TARTAR.—With the acute scarcity and extremely high prices, consumption must be seriously affected. The fact that dealers have not followed the advance for some months past has helped to bring about the present spot scarcity.

CUMIN-SEED.—A parcel of sifted Maltese is offered at 85s. per cwt. gross for net.

ERGOT in rather better demand of late and firmer, with sales of good sound Russian at 1s. 11d. to 2s., the latter price being asked at the close. Spain is asking higher prices; sound Spanish is quoted at 2s. 3d., both on spot.

FENNEL-SEED is offered to arrive at from 57s. 6d. to 60s. per cwt.

FORMALDEHYDE is difficult to get from the U.S.A., and the market there is rising.

GALLIC ACID is rather easier at 4s. 9d. per lb. net on spot.

GENTIAN.—Good French is offered at 77s. 6d. on the spot and at 72s. 6d. c.i.f. to arrive.

HEXAMINE has firms up to 4s. per lb. net.

HYDROQUINONE is rather dearer at from 13s. 6d. to 14s. per lb. on the spot.

INSECT-FLOWERS.—For June-August shipment from Japan 120s. c.i.f. is quoted, the spot value being 170s.

IEPECACUANHA is firm and in fair demand, with sales of Cartagena at 10s. per lb., and for Matto Grosso from 10s. to 10s. 6d. is quoted as to quality.

LAVENDER OIL.—Fine qualities of French are now getting into much smaller compass, and prices show a rising tendency. The new crop is not due until September.

LYCOPIDIUM.—A fair quantity has lately been sold on the spot, dealers now asking 4s. 6d. per lb.

MINT OIL.—Further sales of Japanese dementhrolised oil (Kobayashi-Suzuki) are reported at 2s. 9d. per lb. c.i.f., the spot value being 3s. 2d.

NEROLI OIL.—Distillation of the new French crop is now taking place, and judging from the reports received the oil yield from the flowers will be poor owing to a lengthy

period of drought, being succeeded by heavy rains. The price of finest is expected to be about 18s. per oz.

**PEPPERMINT OIL.**—American is decidedly firmer in New York at 10s. 9d. per lb. c. and f. terms, while the spot value of finest tin oil is 11s. to 11s. 6d. net on spot. H.G.H. is 16s. to arrive, and 16s. 6d. on the spot.

**PEPPERS** are unchanged, fair *black* Singapore offering at 11½d., Alleppy at 11½d., and Tellicherry at 11½d.; fair *white* Singapore is 1s. 1d., and Muntok 1s. 1½d., all on spot.

**PIMENTO** is quiet, with sellers at 3½d. per lb. on the spot.

**PYROGALLIC ACID.**—With a good seasonable demand, position is improving, sellers quoting 15s. 6d. to 16s. for crystals, and 17s. to 17s. 6d. for resublimed.

**QUININE.**—The Government still appear to be taking over stocks and deliveries, so that the demand does not yet appear to be satisfied. Business, therefore, continues suspended for the time being and speculation is at an end, as there is always the possibility of the Government commanding the imports on arrival. All this tends to a cessation of business, and not until the Government demands are satisfied will there be a "free" market again. Meanwhile it is possible to buy a little on the spot at from 2s. 8d. to 2s. 8½d. per oz.

**SACCHARIN.**—Sales are reported at 235s. per lb. net from second-hand holders in very limited quantities.

**SALICYLATES.**—Makers of English salicylic acid are finding that with the increasing cost of production they are unable to sell larger quantities for forward delivery at the old prices; and a gradual improvement is anticipated. The lowest price for acid-powder is 4s. 6d. to 4s. 9d. per lb. on the spot; on the other hand sodium salicylate is still very scarce, and worth 6s. 6d. to 7s. per lb.

**SENEGA** has been in fair spot demand lately at 3s. 6d. per lb. net.

**SHELLAC** is steady but inactive, with the usual standard quality of TN Orange quoted at 219s. to 220s., and fine Orange 225s.; blocky AC Garnet is 230s.

**SODA BENZOATE.**—In the United States makers are offering more freely, and prices are easier at \$6 per lb. for U.S.P. quality.

**SODA CAUSTIC.**—Export business amounting to 4,000 tons principally for Italy is reported from the United States, and the price is dearer, up to \$6.10 per 100 lb. being quoted.

**SQUILL.**—Fair white offer on spot at from 55s. to 60s. per cwt.

**TURPENTINE** closes at 54s. 9d. per cwt. for American on the spot.

**VALERIAN.**—A very fair quantity of Indian valerian which proved to be of good test has been sold at 230s. per cwt. No Belgian or Japanese appears to be available.

**VANILLIN.**—Owing to the advance in clove oil, increased cost of manufacture, and short supplies, spot values are dearer at from 38s. to 39s.

### Sulphuric-acid Manufacture.

The Minister of Munitions has issued the following Order: No person shall as on and from June 11, 1917, until further notice manufacture sulphuric acid except under a licence issued by or under the authority of the Minister of Munitions, and in accordance with the terms and conditions of such licence as to the quantities to be manufactured or otherwise. No person manufacturing sulphuric acid shall as on and from June 11, 1917, until further notice use during any one calendar month more than 10 tons in all of 95-per-cent. sulphuric acid (or its equivalent in acid or other strengths) for the purpose of all other manufactures, trades, and businesses carried on by him except under and in accordance with the terms and conditions of a licence issued by or under the authority of the Minister of Munitions. No person shall as on and from the day following the date of this Order until further notice supply sulphuric acid (including waste sulphuric acid) to any person except under and in accordance with the terms and conditions of a licence issued by or under the authority of the Minister of Munitions. Provided that no licence shall be required to supply not more than 56 lb. of 95-per-cent. sulphuric acid (or its equivalent in acid of other strengths) to any person during any one calendar month. And provided also that any sulphuric acid supplied subsequently to the date of this Order in pursuance of written directions or requests given or made by or on behalf of the Minister of Munitions previously to the date of this Order shall unless and until such written directions or requests are cancelled or withdrawn be deemed to have been supplied under a licence issued under the authority of the Minister of Munitions within the meaning of this Order. As on and from the date of this Order until further notice no manufacturer of sulphuric acid or agent of such a manufacturer shall charge or receive in payment for any sulphuric acid supplied by or through him a price exceeding the maximum price specified for sulphuric acid. Pro-

vided that the maximum prices shall not apply to (a) sulphuric acid supplied to persons outside the United Kingdom under export licences; (b) sulphuric acid manufactured outside the United Kingdom; (c) sulphuric acid made wholly from brimstone; (d) sulphuric acid specially purified for laboratory purposes. All persons engaged in producing, manufacturing, selling, distributing, or storing sulphuric acid (including waste acid), or in any manufacture, trade, or business in which the same is used, shall make such returns with regard to their businesses as may from time to time be required by or under the authority of the Minister of Munitions. For the purpose of this Order the expression sulphuric acid shall include sulphuric acid of all strengths up to 100-per-cent.  $H_2SO_4$ , but shall not include acid containing free  $SO_3$  commonly called oleum or fuming sulphuric acid.

All applications in reference to this Order (including applications for licences) should be addressed to the Director of Acid Supplies, Ministry of Munitions, Department of Explosives Supply, Storey's Gate, Westminster, London, S.W. 1.

The following maximum prices have been fixed:

**1. Weak Acid**—i.e., acid of all strengths up to and including 90%  $H_2SO_4$ ; Class A.—Arsenical Acid, 70s. per ton for acid of 140° Tw. at 60° F., with an increase or reduction of fivepence in respect of each complete degree Twaddell by which the specific gravity is more or less than 140° Tw. at 60° F. Class B.—Non-aromatic or de-arsenical acid, 85s. for acid of 144° Tw. at 60° F., with an increase or reduction of sixpence in respect of each complete degree Twaddell by which the specific gravity is more or less than 144° Tw. at 60° F.

**2. Concentrated Acid**—i.e., acid of all strengths over 90%  $H_2SO_4$ :

Monohydrate ( $H_2SO_4$ ) Content of Acid	Maximum Price per Ton	
	Class C. Arsenical Acid	Class D. De-arsenicated or Non-aromatic Acid
Over 90 % and up to 91 %	£ s. d.	£ s. d.
" 91 "	5 3 0	5 13 0
" 92 "	5 9 0	5 19 0
" 93 "	5 15 0	6 5 0
" 93½ "	6 1 0	6 11 0
" 94 "	6 4 0	6 14 0
" 94½ "	6 7 0	6 17 0
" 95 "	6 10 0	7 0 0
" 95½ "	6 15 0	7 5 0
" 96 "	7 0 0	7 10 0
" 96 % in both classes an addition of 1s. per ton for each complete one-tenth of 1 per cent. of additional monohydrate.		

All the above maximum prices are for acid delivered into tank-wagon, tank-cart, or tank-barge at makers' works. When the acid-maker supplies the railway tank-wagons, he shall be entitled to make a further charge of not more than 5s. per ton for hire of such wagons. When the acid-maker supplies the acid in his own drums, he shall be entitled to make a further charge of not more than 10s. per ton for filling and hire of drums. When drums are supplied by the purchaser, a charge of 2s. per ton may be made to cover the cost of filling.

When the acid is supplied in the acid-maker's own carboys, he shall be entitled to make a further charge of 1s. per ton for filling and hire of carboys. When carboys are supplied by the purchaser, a charge of 5s. per ton may be made by the acid-maker to cover the cost of filling. In cases where a maker of sulphuric acid has, in order to supply his customers, to purchase supplies of acid from a third party, it will be permissible for him, in so far as this is a departure from his normal procedure, to charge to his customers any extra cost of carriage thereby incurred.

### American Bromine Production.

During 1915 there was a significant increase in the production of bromine, the total output in the United States being 855,857 lb., valued at \$856,307, or about \$1 per lb. The comparatively low price indicated by the total figures is due to the fact that a considerable quantity was sold at prices specified in contracts made before the demand increased and to the further fact that the figures indicate prices at point of production, and hence do not include the cost of freight. The price of bromine during the first half of 1916 ranged from \$4.75 to \$6.50 per lb. in New York, as a result, at least in part, of the unprecedented demand from abroad. In March 1917 it had fallen to \$1.30 per lb. As the quantity of bromine marketed in 1915 was an increase of nearly 50 per cent. over the production of each of the two preceding years, and as the number of wells is few where there might be many, it is assumed that this quick response to a sudden demand is only a suggestion of what may be done in case of continued and increased demand. The statistics of production for 1916 are not yet available.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

#### The late Mr. Peter MacEwan.

*F. A. Degen, F.I.S.A.C.*, writes: "What can I do for you?" These were the words with which I was greeted when I last saw Mr. Peter MacEwan. "What can I do for you?" This phrase is the key to his character. His concern always was what he could do for others. Mr. MacEwan may be succeeded, but he will never be replaced. His open-mindedness, his learning, his broad and comprehensive sympathy endeared him to everyone with whom he came into contact. He was a practical man, yet he was a man with high ideals and the courage and faith to uphold them."

*Mr. Charles A. Hill*, managing director of The British Drug Houses, Ltd., writes: "The passing of Peter MacEwan leaves poorer both pharmacy and journalism, and to a degree which may not at once be realised to the full. His knowledge of matters pharmaceutical was perhaps unique in its breadth; in its intimate acquaintance with the legislative, political, and historical aspects it presented a combination which can ill be spared. As an editor he was wise, fearless, and sympathetic, scrupulously fair to both sides, with a generous readiness to champion a weak, but worthy victim of circumstances. Those who had the privilege of knowing Peter MacEwan personally mourn the loss of a true and loyal friend."

*Mr. Wm. Mair, F.C.S.*, Edinburgh, writes:

"Thirty years' friendship with the late Mr. MacEwan is a cherished memory. There are very many throughout the world who esteemed him highly who never knew him except by correspondence—that wonderful correspondence. But those who owe all they are, all they have, to Mr. MacEwan—and they are many—know what a priceless possession his friendship was. He would write a line of introduction on his visiting-card, which proved for the recipient—perhaps up from the country for the first time, or home from abroad—the opening-up of a life's work of happiness and prosperity. Such was his selective intuition, and he rarely made a mistake. But he was the same to all, friend or acquaintance. A chance suggestion of his in a technical difficulty has, in the ultimate result, quite often proved to be worth thousands of pounds. How many have come from the ends of the earth just for that quiet handshake and unfailingly generous reception, and have left 42 Cannon Street feeling that they filled quite a little niche in the big world of pharmacy! As Dr. Conan Doyle wrote of his friend Henley (also, one seems to remember, a friend of MacEwan's), 'You left his presence as a battery leaves a generating-station, charged up and full.' He was indeed the wise counsellor and the true and sympathetic friend, always radiating sunshine and energy. His industry, his amazing 'output,' and his scrupulous adherence to the loftiest ideals of pharmacy, no less than to those of his other profession of journalism; his fairness of mind, his courage, his rare insight and his genius, as well as his infinite capacity for taking pains; his modesty and moderation—the reserve of strength—his scholarly habit and literary tastes and his grace of humour, were all, and will be, an inspiration."

#### Regulating Pharmacy.

SIR,—Your correspondent "Unqualified" (*C. & D.*, May 19, p. 51) makes a statement which seems to me to point out the origin of most of our troubles as a profession. I quote his words:

"I served six years as an apprentice. During that time I believe I was allowed to copy one prescription in the book. The fact of the matter was, my master did not take any interest in his apprentices, but just used them as money-makers. That is where the great fault lies. If chemists wish to have apprentices they should be prepared to train them properly."

Your correspondent's experience is by no means unique. As a teacher, I find that an apprentice who has not made a pill or spread a plaster is the rule rather than the exception. It is quite useless for a youth to spend three or four years in such an "apprenticeship" and to expect to be trained as an efficient dispenser at a school, however well equipped the college may be. The place for training is the

pharmacy, and the schools cannot produce experienced dispensers in six or even nine months. All they can do is to systematise his knowledge. Now, what is the remedy? How are we to rehabilitate ourselves in the esteem of the public? Not by "Ucal" methods or by co-operative buying, worthy as they may be. They will serve to increase the pharmacist's profits and perhaps to impress the buying public with our acumen as business men. By resorting to these methods, indeed, we may be sacrificing much that we ought to hold dear; I mean the personal element in our selling lines. No pharmaceutical skill is required to hand over a package of a preparation bearing one's own name but the contents of which are an unknown quantity to the vendor. In any case the multiple shops have secured too great an advantage over us for us to hope to overtake them in that race. I hope my many retail friends will not misunderstand me when I say this. Their efforts are commendable, but I would like to warn them not to expect results from these efforts which never will accrue. They will not make pharmacists more professional or create the impression that we are scientifically trained. The remedy lies in the improvement of the training of the pharmaceutical apprentice. That must commence on the very first day of the training. It is, perhaps, not altogether due to the love of wealth that apprentice-masters neglect their apprentices' education. In many cases that is due to their own deficient training. They have received their technical education under such conditions as have induced them to forget all they have learnt as soon as they passed the Minor. Now the time is due, and overdue, for all that to be altered. The private school has been a necessity in the past because few public institutions have had anything to offer the pharmaceutical apprentice. Pharmacists must demand that these shall now supply that training. Technical schools provide systematic courses for plumbers, painters, grocers, bakers, and bootmakers, but the poor pharmaceutical student rarely finds any courses to meet his needs. The deficiency is being made good, one is glad to say, in many towns. We are at a crisis. The Apothecaries' Society in one year has granted certificates in dispensing to about four hundred ladies and a few gentlemen. To what end? The law courts may answer that question for us in a way decidedly to our disadvantage. This matter is a very grave peril to us. The only way to resist it is to raise our own standard of training to such a level that there can be no possible comparison between us and them. We have an examination of very high standard. No one need be ashamed of the Minor if he has received proper training for the test. It is a source of satisfaction that the Council are moving in the matter. One thing remains for us members, and that is to give to them sympathetic and active support in their efforts to bring about the much-needed reforms in this direction.

A TEACHER OF PHARMACY. (37/33.)

#### The Title "Chemist."

SIR,—In your last issue (May 26, p. 33) there was a note about the meeting of the Manchester Textile Institute, at which Dr. M. O. Forster gave it as the reason why chemistry had been neglected (by young men) is that the title "chemist" in the idea of the general public is associated with the retail drug-trade. Inferentially, therefore, it is a trade "despised and rejected of men," and as such not to be touched with a prop by the very superior boys who are (later on) to save the country from the German chemical scientists—by the help of a tariff—perhaps! The retail trade is in a state of flux; 50 per cent. of retailers are doing well, and making 500% to 1,000% a year. The other 50 per cent. are preparing to qualify for other realms, and we shall all be glad when they go. We want nothing to do with the word "chemist"; we are druggists, and thrive on it. We detest the word "pharmacist," and will make a present of it to anybody. Therefore Dr. Forster can be assured of our help in the matter. I intend using the designation druggist, which I should have adopted in 1906 had I not been persuaded not to do so by an old friend, who said the public will confuse the term with drug-store—used by unqualified persons. In Scotland the popular title was "druggist" even thirty years ago (I served my time there), but if it is not so now we shall be sure to hear of it. In England the shops which have the securest and most independent positions are those with good retail trade, which does not depend upon the favours of doctors. There always will be men and women who prefer a business of their own, and an assured profit of 500% or 600%, rather than the more scientific position of being a chemist in a works. We know there are big plums in the latter profession—for the few. But it is doubtful whether the men who are crowding into that profession will find the salary please them, even though the social status tickles their vanity.

"JAY MACK."

**The Raising of the Age Limit.**

SIR.—I believe I am expressing the views of most pharmacists over the age of forty-one years in drawing the attention of the ruling pharmaceutical powers, local or otherwise, to the fact that there is a large number of qualified and unqualified assistants fit subjects for the Army who hold various forms of exemptions. So long as there was no need to call upon old men for the Army there was no dire necessity to rush these men into the Army. The times and circumstances have rapidly changed. The Pharmaceutical Committees did all they could to help chemists to obtain these exemptions. It is now up to the men over forty-one years of age, most of whom have family responsibilities and physical unfitness after twenty-five to thirty-five years' sedentary life behind the counter, to see to it that the men under forty-one years of age are no longer sheltered by the Pharmaceutical Committees. Undoubtedly it is the plain duty of every chemist to see that employés under the age of forty-one years are released for the Army. Those who do not act quickly will find that limited companies have forestalled them by securing the available older men, and will get no sympathy should they complain of over-work when assistants are eventually taken by the military.

M.P.S. 46. (43/8.)

**Voting for Council.**

SIR.—I cannot see that Mr. John Williams has any ground for complaint against the Pharmaceutical Society because he has not a vote at the Council elections. To obtain a vote at a Municipal and a Parliamentary election certain conditions are imposed, and the voter must be a ratepayer, or in some way subscribe to the upkeep of the town, city, or parish. The Pharmaceutical Society only asks the same condition: subscribe towards its upkeep. Mr. Williams' remedy is therefore in his own hands.

FIAT JUSTITIA. (42/2.)

**Pharmaceutical Committees' Expenditure.**

SIR.—Most of us are aware that the  $2\frac{1}{2}$  per cent. deducted by the Insurance Committees from the sweated labour of the chemist goes towards defraying the expenses of the Pharmaceutical Committee, which body has not rendered any statement of account showing how much of the  $2\frac{1}{2}$  per cent. goes towards the Checking Bureau. Even if this had been done no person has a right to alter our original contract. The Insurance Commissioners have through the instrumentality of Insurance Committee deducted  $2\frac{1}{2}$  per cent., and presented it to the Pharmaceutical Committee, which I contend is legally wrong. It is a point which has always been upheld in the Appeal Court that you cannot add to or take from a written contract. The Secretary of the Treasury has stated that the payments to the Pharmaceutical Committees have exceeded the amount allotted by the Government, hence it is the duty of the Pharmaceutical Committees to reduce their expenses by giving up highly rented offices and cutting down salaries. If we do not protest against the  $2\frac{1}{2}$  per cent. at once we shall have it embodied in our next contract. The Insurance Committee reduced expenses by shifting up a back street. Why not the Pharmaceutical Committee?—Yours truly,

GEORGE CROCKER.

59 Camberwell New Road, London, S.E.

**Irish Assistants' Wages.**

SIR.—So long as I can remember, Irish assistants have always been particularly careful to refer to the calling of pharmacy as a profession. Especially was this the case in the official utterances in connection with their various Associations in the past. The latest-formed Association, however, has decreed otherwise. By amalgamating with the Trades Union, a body which looks after the interests of bricklayers, carpenters, etc., it is now placed beyond dispute that pharmacy is a trade. Probably nobody will be more sorry for this change than the present-day assistant, when, in a few years hence, he becomes a proprietor himself.

Dublin.

CARBOY. (43/52.)

SIR.—Referring to "Limerick's" letter in the *C. & D.*, May 26, p. 50, I wish to state that, to my mind, the writer is but superficially acquainted with the conditions of the average assistant in Ireland. As one who has worked in India, England, and Ireland, I take it I am qualified to express an opinion on the subject. Irish chemists are too hard on their assistants and apprentices. The hours of duty in many Irish pharmacies are absolutely ridiculous, and the pay in return a mere pittance. Fancy a man of twelve years' experience receiving a salary of £61. per annum indoors! "Limerick" argues there are too many "grumblers." Yes, I dislike the word, but fancy it applies more to employers than to assistants.—Yours faithfully,

VERITAS. (42/16.)

SIR.—Surely in these enlightened times a Chemists' Assistants' Association for the betterment of their position is admissible! This evidently does not conform with the ideas of "Limerick" (*C. & D.*, May 26, p. 50), who would rather we went along under the good old-fashioned way to be brow-beaten, etc., just as the employers would like. To talk of assistants applying individually to their employers in a case like the one in point is rather too good altogether from the employer's view. How can men be expected to work the long hours of a chemist's assistant on a miserable pittance such as is offered to them at the present time in Ireland, under the existing high cost of living, with salaries, so-called, at pre-war figures?—Yours truly,

Worcester. M. GREENBAR, M.P.S.I.

SIR.—In reply to "Limerick" (*C. & D.*, May 26, p. 50), I should like "Limerick" to state the wages paid to assistants there to enable one to judge as to whether this rate of wages is sufficient to enable the assistant to pay the increased cost of living at the present time and to get a fair share of enjoyment out of life. Assistants, as a rule, are fairly young men, and between long hours and small pay their existence is not a bed of roses, and their share of enjoyment as compared with the assistants of other businesses is very small. The chemist's assistant has no one to champion his cause, and up to now has been the slave of the public and his employer, with little thanks from either. Can "Limerick" inform us, if it is not a well-known fact, that two-thirds of the men behind the counters in his city are apprentices, and that two-year apprentices are turned out as fully fledged assistants, and, migrating elsewhere, cause depression in the rate of wages?—Yours truly,

WAR BONUS. (42/10.)

[Our correspondent encloses a cutting from the "Irish Daily Independent" which supports his contention.—EDITOR.]

SIR.—It is high time that the Irish chemists' assistants should organise themselves in order to better their present unavoidable position. Their higher education and position seem to give them no advantage over grocers' and drapers' assistants. For their defense, the employers cannot assert that the business could not afford higher remuneration. The assistants know that the gross profit is from 35 to 50 per cent. of the turnover, and this profit should afford a decent wage to the assistants and still allow a handsome net profit. The action of the Dublin assistants is a little premature in the eyes of provincial assistants. The country should have been thoroughly organised and every assistant enrolled a member of the Association. If this had been done they could demand a reasonable wage, which the employers could not refuse, as the assistants are indispensable and could not be replaced. Particularly in the provinces the assistant is a regular slave; he has to do the dispensing, keep up stock, do books, and in return receives a mere pittance for his services.

IRISH PROVINCIAL ASSISTANT. (42/14.)

[We have received several more letters on the same subject, but so far as we can see no new points are raised. These letters we are compelled to hold over from want of space.—EDITOR.]

**Subscribers' Symposium.**

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

**Fruit-preserving.**

*W. H. B.* (32/4) writes: "Probably some of the readers of the *C. & D.* will be bottling fruit this year without sugar. I tried last year with simply boiling water and a little acid salicyl, and then a layer of mutton-fat on top, but it was not a success. I think this is worth bringing to the notice of chemists, who are often asked about these matters."

**The Annual Meeting.**

*Fiat Justitia* (35/73), writing in regard to Mr. Schollar's inquiry to the President of the Pharmaceutical Society for the reason why Mr. Campkin was passed over for the Vice-Presidency, comments: "The President, for reasons best known to himself, declined to give any explanation. If this kind of game is played of one insider against another insider, what kind of a game are we to expect from the insiders against the outsiders?"

**Gargles for Dogs.**

*Agricola* (31/22) writes that he is much amused at the idea of gargling a dog's throat (*C. & D.*, May 12, p. 48), and does not think that such a recommendation can be justified. Our veterinary expert informs us that gargling and spraying a dog's throat are commonly prescribed, the methods employed being (1) an ordinary spray-producer;

(2) a piece of sponge or rag, moistened with the liquid, placed well in the dog's mouth, being gently squeezed. The dog's head is held well up, and the animal automatically endeavours to eject the fluid, and thus obtains the effect known as gargling; and (3) a piece of sponge or rag wetted with the gargle is tied on a stick, placed in the dog's throat, and turned round several times.]

#### Cheese from Goat's Milk.

A correspondent (91/9) writes from somewhere in the Adriatic Coast that he is in charge of a convalescent camp, and he wants to know whether Malta fever would be conveyed by cheese made from goat's milk. He is not allowed to let the men have goat's milk, but there is plenty of cheese made from it, and he wonders if it is safe to use the cheese. [Inquiries we have made from various sources have not given us precise information. Statements occur in the text-books that Malta fever can be conveyed through cheese made from infected goat's milk, but there is no definite evidence that the organism has ever been isolated from such suspected cheese. The best course to adopt is to send some of the cheese to a bacteriological laboratory with a view of determining whether the micrococcus is present and still active or viable.]

### Legal Queries.

*Selymoly* (19/7).—We do not consider it to be wise for you to aid an unregistered dentist to avoid the conditions laid down whereby he can obtain from you cocaine preparations containing not more than 1 per cent. of the alkaloid for dental purposes. You should ask him to obtain the necessary licence from the Home Secretary, whose address is Whitehall, London, S.W. You can dispense the cocaine preparation on the prescription of a registered medical practitioner, but there is a possibility of this being construed into guilty knowledge on your part.

*North Wales* (37/34) took a lease of the premises in his occupation for three years from March 25, 1914, with the option of holding the premises for a further term of five years at the same rent, exercisable by giving notice in writing six months prior to March 25 last. He did not exercise his option, but called upon the landlord's agent six months before March 25 last, and verbally offered to continue the tenancy for another year. This offer was neither accepted nor rejected, but a few days ago the agent informed "North Wales" that the rent would be increased as from July 1 next. Is the raising of the rent legal? [The premises being in Wales, if the rent exceeds 26*l.* per annum the landlord is entitled to raise the rent. If, on the other hand, the rent does not exceed 26*l.*, the Increase of Rent and Mortgage Interest (War Restrictions) Act, 1915, renders any increase in the rent irrecoverable unless the increase does not exceed 6 per cent. per annum on any sum expended by the landlord in structurally improving the premises, or, if the landlord pays the rates, represents an increase in the rates since the outbreak of war.]

### Miscellaneous Inquiries.

*H. J. J.* (26/9).—You will find full particulars in regard to the registration of patents in the *C. & D. Diary*, p. 353. If you send a stamped and addressed envelope to our Information Department you will obtain the names and addresses of rubber-sponge manufacturers.

*M. D.* (14/45).—ESSENCE OF TONQUIN BEAN for perfumery purposes is made by macerating 5 oz. of the powdered tonquin bean in 10 oz. of spirit for two days, then pack in a percolator, and allow all the liquid to percolate through, adding more spirit until 20 oz. of percolate has been obtained. Finally displace as much as possible of the spirituous tincture with water. The United States Government authorities have laid down a standard for this essence for use as a flavouring. 0.1 per cent. of coumarin being the standard set up.

*Sulphur* (29/12).—GLYCERIN SUBSTITUTE IN HAIR-WASH.—For this purpose we suggested some time ago the use of Turkey-red oil or sulpho-ricinoleate of sodium. It mixes with water, and one of the commercial uses of the preparation is to give a finishing gloss to linen thread. The oil should be neutral.

*H. F. S.* (28/36).—The alkali of the water-glass solution may act on the copper if a vessel of that metal is employed for containing the eggs which are being preserved. It would be better to sell the copper—at its present enhanced value—and buy earthenware crocks, which are best for the purpose.

*Subscriber* (19/99).—PEPTONISED COCOA AND MILK.—Referring to our previous reply to your inquiry, our attention has been directed to the formula given in Thew's expired patent, of which the following is an abstract:

Raise the temperature of the milk to be peptonised to between 55° and 65° C., add from one-third to one-fourth of its volume of a decoction of cocoa, at about the same temperature; either before or after the addition of the cocoa add bicarbonate of soda in the proportion of about  $\frac{1}{2}$  oz. to the gallon, or phosphate of soda in the proportion of from  $\frac{1}{2}$  oz. to 2 oz. for each gallon of the mixture. Next add an active extract of pancreas, and allow the process of peptonising to go on for from one to two hours, according to the activity of the extract of pancreas, maintaining the temperature at between 55° and 65° C. When the peptonising is complete the liquid is heated, sugar added, the mixture boiled for some minutes to kill the ferment, and then concentrated in a vacuum pan until it contains from 20 to 25 per cent. of water.

*R. C.* (36/3).—FOOT-ROT APPLICATION MADE WITH MERCURY. The proportions are as follows:

Hydrargyri	...	...	...	...	zij.
Ac. nitrici	...	...	...	...	zij.
Ac. hydrochlor.	...	...	...	...	zij.
Ac. acetic.	...	...	...	...	zij.

To be diluted with from four to twelve parts of water as required.

Care must be exercised in dissolving the mercury in the nitric acid—the process should be carried out in a jar, in the open air or a fume-chamber.

*Isle of Man* (27/74).—GLUCOSE IN JAM-MAKING.—The proportion of glucose to sugar which is recommended by the Board of Agriculture (*C. & D.*, August 26, 1916, p. 48) is one part of glucose-syrup to two parts of sugar.

*E. G. T.* (11/2).—BOOKS ON SOAP-MAKING.—Watts' "Art of Soap-making: Practical Handbook of Manufacture of Hard and Soft Soap and Toilet Soaps" (Lockwood, 7s. 6d.); Hurst's "Soaps: A Practical Manual of the Manufacture of Domestic, Toilet, and other Soaps"; Lamborn's "Modern Soaps, etc." (Lockwood, 1906); and Deite's "Manual of Toilet-soap Making" (Maclarens, 1905) are some of the modern works on the manufacture of soap. We do not think, however, that you will be able to make a commercial success of soap-making in competition with the enormous manufacturing businesses which control the bulk of the raw materials. Your best prospect of success would be in the direction of milling and compounding toilet and medicated soaps from a good-grade yellow soap.

*W. H. B.* (32/4).—PRESERVATIVES IN FOOD.—There is no standard laid down for the amount of preservative in fish-paste. Salt is generally used for this purpose, and nobody seems to object to the use of that chemical as a preservative, no matter how high the proportion.

*A. S. A.* (32/57).—CASCARA TABLETS.—The formula for which you ask is as follows:

Cascara extract	...	...	...	2 <i>l</i> . gr.
Euonymin	...	...	...	$\frac{1}{2}$ gr.

*G. P.* (32/59).—The use of an alkaline solution (sodium carbonate or ammonia) would re-dissolve coagulated casein.

*Sligo* (42/9) is reminded that we do not reply to anonymous inquiries.

### Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1867.

#### The Pharmacy Bill.

Meetings are reported of the United Society of Chemists and Druggists at Blackburn, Burnley, Dewsbury, Halifax, Leeds, and Oldham. All these meetings were in support of the amended Pharmacy Bill, which the Burnley chemists declared was "calculated to promote the union and prosperity of the trade," while the Dewsbury chemists "rejoiced in the good understanding established between the executive of the United Society and the Pharmaceutical Council for the union of the trade." Halifax "considered that the trade was under much obligation to the United Society for their unwearied efforts to bring about a result so desirable," and the Leeds meeting was "much gratified to find that the persevering efforts of the United Society of Chemists and Druggists, for the incorporation of the trade, have resulted in an arrangement with the Pharmaceutical Society for a Bill to be brought into Parliament." Mr. Richard Reynolds was one of those present, and he spoke in favour of the Bill.

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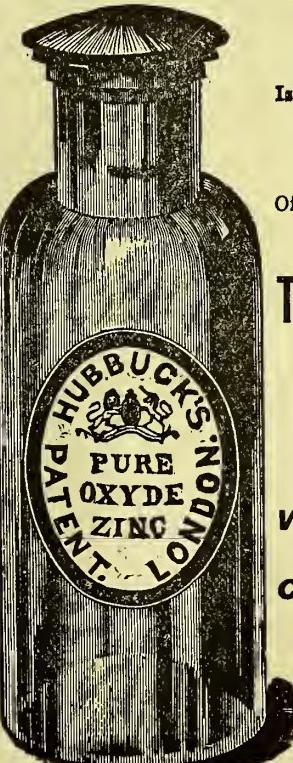
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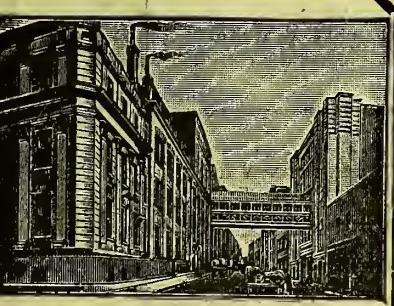
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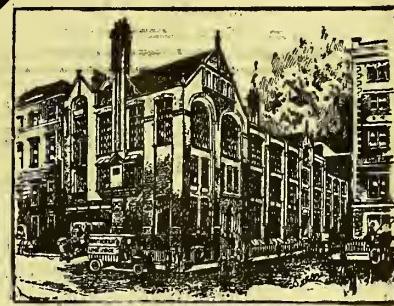
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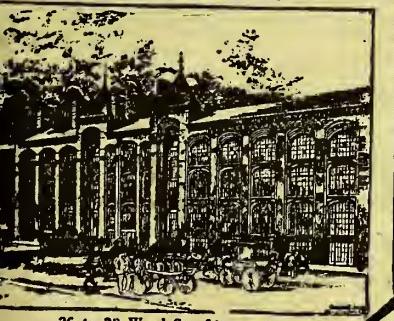
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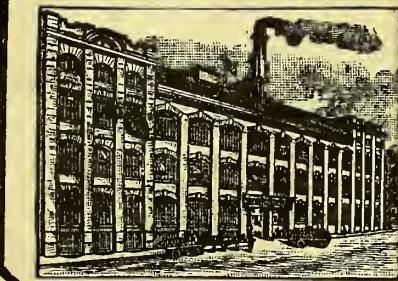


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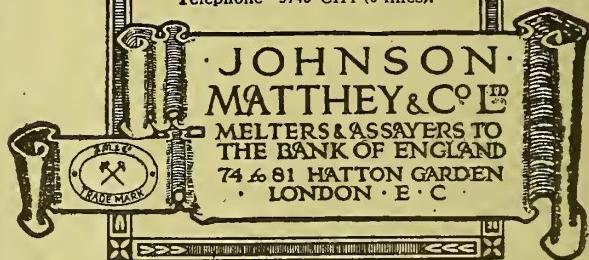
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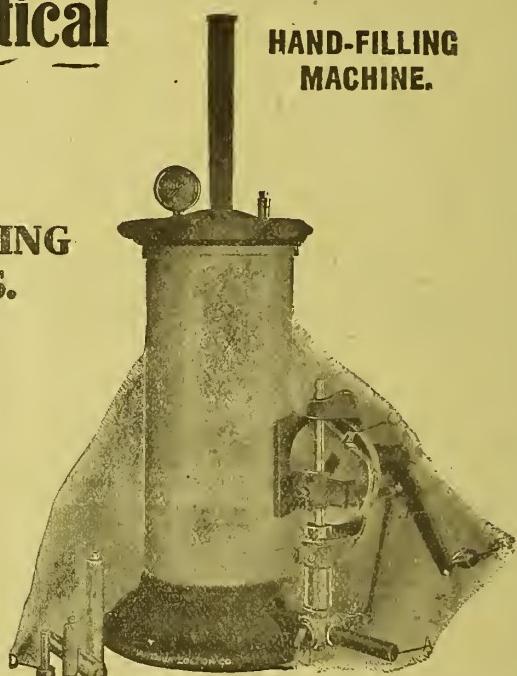
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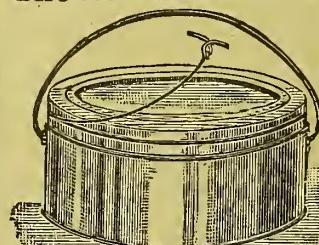
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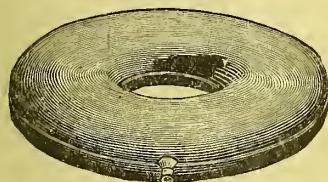


Fig. 1194.

**BRITISH  
MAKE.**

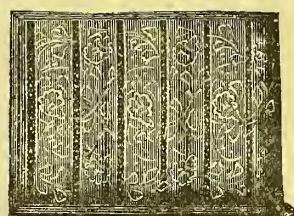


Fig. 1354.

Fig. 1194.—The "EMPIRE," red India-rubber Air Cushion—

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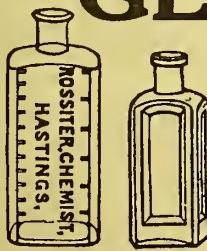
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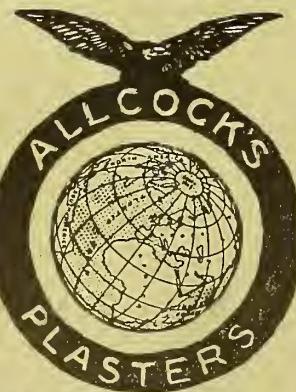
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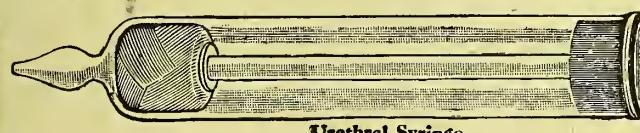
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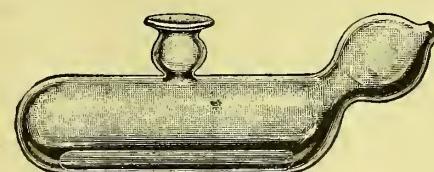
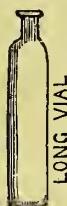
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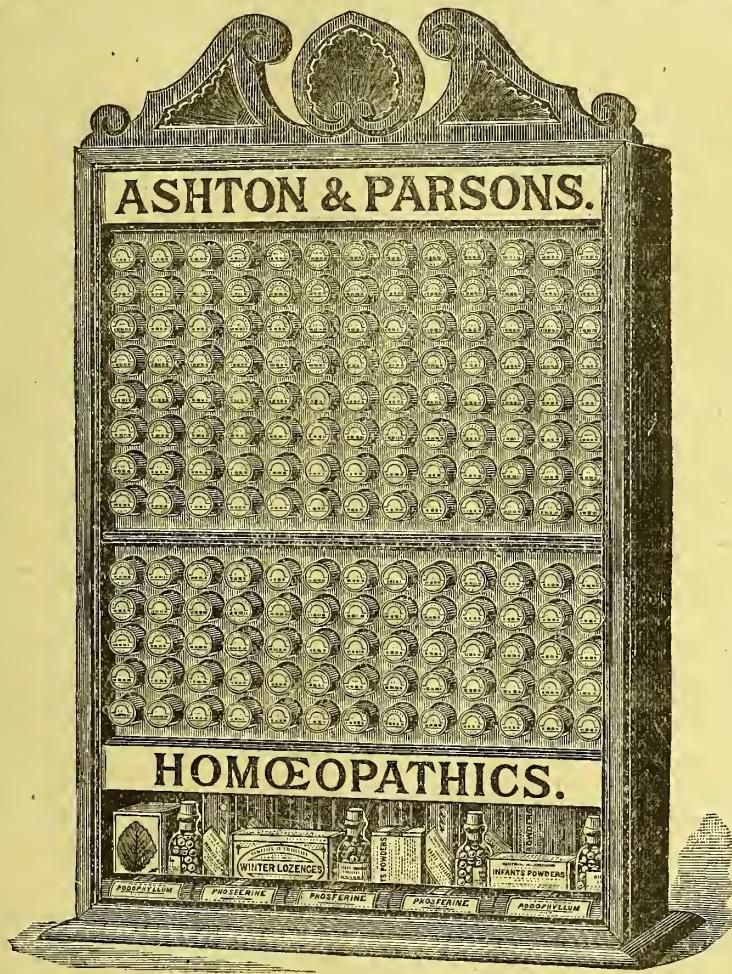
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of irregular or ill-formed teeth, makes their whiteness a source of beauty.

MAKE YOUR WINDOW TALK.

Push your Tooth Paste, Powder, or any special dentifrice you are running by the aid of our TALKING CARDS. Set of 6 clean-cut, terse phrases that get across the pavement and arrest immediate attention. Printed in clear legible type, rich black, with orange and black border, on fine white ivory boards 9 $\frac{1}{2}$ " x 5"

1/3 post free.  
Cash with order.

TRADE MARK

TRADE MARK

258, EUSTON ROAD,  
LONDON.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY JUNE 2, 1917

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED THE MONEY IS TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

## BEST RESULTS EVERY WEEK!

### THE PUBLICITY IT PAYS TO PAY FOR.

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.' Everybody in the drug-trade knows that only bona-fide paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

## CHEMISTS' TRANSFERS.

### Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.W.—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.

2.—LONDON, N. (Main Line of Rail).—For immediate Disposal, a good but neglected Business returning under assistant £1,270 at fair prices; books audited by accountant and stock taken annually; terms, small sum for good-will and valuation of stock and fixtures.

3.—LONDON (Southern Suburb).—Medium-class Family trade; well established; turnover averages £925; gross profit £355; comfortable residence; rent £45; sub-let £13; no near opposition; price £400, or valuation of stock and fixtures.

4.—LONDON (Northern Suburb).—Situate in main shopping thoroughfare; well-established Business; increasing income; returns between £1,000 and £1,100; profits exceed the usual rate of middle-class Business; well-fitted shop and comfortable residence; price £600.

5.—WALHAM GREEN STATION (Within Easy Distance of).—Ready-money Retail; returns upwards of £1,000 per annum at fair prices; net profit estimated at £300; price £750, about the value of stock and fixtures.

6.—SLOANE STREET (Near).—Retail and Dispensing Business; held by vendor upwards of 30 years; returns £2,000; gross profit 50% (proof given); terms, goodwill £250, stock and fixtures by valuation; good opening for a partnership.

7.—BANKS OF THE THAMES.—Retail and Dispensing Business; very good connection with local medical men; returns upwards of £1,200; net profit £300; price £800; stock and fixtures estimated at £600.

8.—BATH.—Vendor retiring; price £350, or best offer will secure a good-class Retail and Dispensing Business returning about £300 yearly, with scope for development under energetic management; further details on application.

9.—OXON. (Market Town).—Good-class Business, Retail, Dispensing, and Photographic, with small Mineral Water Plant; returns average over £1,000 yearly; scope for development; good position in main thoroughfare; valuation terms entertained.

10.—BOURNEMOUTH.—Old-established Business, essentially Dispensing and Family Retail; position unique; returns £2,500; under modern management an opening presents to considerably augment the turnover; terms, valuation of stock and fixtures, less a substantial rebate; vendor retiring.

11.—BIRMINGHAM.—Retail and Dispensing Business; established many years; returns under management about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly, satisfactory reason for disposal; valuation terms entertained.

12.—HEALTH RESORT (Within Easy Reach of London).—Established Business; capital situation; returns under management about £12 weekly; scope for development under personal supervision; attractive double-fronted shop with comfortable residence attached; price £250.

13.—EXETER (Near).—For Disposal through death, Family and Dispensing Business; returns between £400 and £500; rent £38; no immediate opposition; price £175.

14.—WEST OF ENGLAND (Health Resort).—Select, good-class Business, admitting of extension; returns about £1,400; well-stocked shop and good house; on lease; price £1,200.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

## PARSON C. BAKER

(Pharmaceutical Chemist),

**Trade Valuer & Transfer Agent.**

Recommended by The British Drug Houses, Ltd.; Messrs. Messrs. & Co.; Barclay & Sons, Ltd.  
Valuer to the Association of Manufacturing Chemists.  
Mountfield Road, CHURCH END, FINCHLEY, N.  
Tel. No.: Finchley 812.

## BATTAM & HEYWOOD

(ESTD. 1837.)

**CHEMISTS' VALUERS, TRANSFER AGENTS,****AND EXPORT STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

3 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

## BERDOE & FISH

**VALUERS & TRANSFER AGENTS,**

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

**NO CHARGE TO PURCHASERS.**

1.—CAMBRIDGE (Easy Distance From).—Death vacancy; good-class Light Country Retail Business; pleasantly situated in small market town and increasing; returns nearly £1,300; clear net profit £430; splendid 10-roomed house, garden, and greenhouse; handsomely fitted Pharmacy, very heavily stocked; price required, £1,050; we have been appointed sole agents, and can recommend it as being above the general run of businesses.

2.—BATH.—High-class Dispensing Business; owner retiring; returns £800; good profits; fine position; plenty of scope; price £350 or offer.

3.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house attached; price £450 or valuation.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; splendid house; own property; price £400 cash; worth attention.

5.—LONDON, W.—High-class Dispensing Business for Private Disposal; returns between £2,000 and £2,500; excellent profits; prominent position; with scope for increase; fine opportunity for two smart men; price £1,100; references required.

6.—LONDON, S.W.—Profitable Cash Suburban Retail; entirely under manager; present returns between £800 and £900; plenty of scope; rent £50, let off £26; well stocked; main-road position; price £20 and valuation, about £350; manager called up.

## STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every  
10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answer to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

DEVON.—Progressive, profitable Country Business; small market town, near coast; short hours; assistant kept; returns £1,100 to £1,200; large double-fronted shop, well fitted and stocked; new lease; rent £40; good house and bath; central position; net profit high; good Optical connection; introduction and tuition given in latter. "F.S.M.C." (250/29), Office of this Paper.

LONDON SUBURB.—For Sale, an old-established Business; £1,000 a year; price £275. cash; fine opening for Panel, Dentistry, and Optical; ill-health cause of disposal. Apply, 249/34, Office of this Paper.

MIDLANDS.—Owing to death of proprietor, excellent Retail and Dispensing Business, with Wine and Spirit licence, in healthy, flourishing country market town; a prosperous business for 50 years, and still open to development; modern premises with good house; well-fitted shop; satisfactory lease; an exceptional opportunity to immediate buyer. Apply, Mrs. G. Heaton, Ripley, Derbyshire.

NORWICH.—Drug Store for Sale in thickly populated district; no similar business within large radius; established over a century; splendidly fitted and stocked; Dental Surgery combined. Apply, Houghton, St. James, Norwich.

SOUTH WALES.—Immediate disposal, in busy industrial centre, well-established Business showing good returns and profits; a bona-fide going concern, and will bear strictest investigation. Apply in first instance to J. W., "Brynaewel," The Parade, Whitchurch, Glam.

DRUG STORES in a thickly populated, middle-class district (North-East Suburb), doing, under an indifferent and inexperienced management, £9 per week (can be doubled); most modern and up-to-date mahogany fixtures; new cash register, cost £25; well stocked (about £120 worth); three scales, balances, etc.; busy road, trams passing the door; nice house; reasonable rent; worth seeing; a real war bargain; owner joining up shortly; price for quick sale £150, everything included; reply at once. Apply, 250/26, Office of this Paper.

OLD-ESTABLISHED (50 years) Chemist's Shop, House, and Premises to Let at Martinmas (or earlier by arrangement), owing to the retirement of present occupier; good country town; central position; rent £45, on lease; may, if desired, be had as a going concern by taking the splendid Fixtures (Stock optional) at less than a valuation; golden opportunity to a real live Chemist. Apply, Geo. Rydiard, 52 Main Street, Cockermouth.

WHAT offers for sound Chemist's Business? Stock and Fixtures worth £250; turnover £900; gross profits £200; rent £23 8s.; owner called up; must be sold; highest bidder gets it. F. G. Boden, Chemist, Moesley, Lancs.

## FOR SALE.

A BOUT 100 lb. Potassium Neutral Oxalate, 14 lb. Potassium Phosphate, 60 lb. genuine Beeswax, 10 lb. Potassium Ferrocyanide, 1 lb. Silver Nitrate Recryst., 60 lb. Potassium Cyanide, 30% Coke, 80 Protargoloids, 100 Eunatrol Pills, 2 oz. Novaspirin, 1 oz. Hypnal, 2 drachms Alpha Eucaine, 2 x 25's Tannigen Tablets, 2 x 30's Thyreol Capsules, 25 Hexaleties, 3 x 20 gr. Hetratine,  $\frac{1}{2}$  oz. Aristol, 1 oz. Epicarne Pur, 6 x 30's Istin, 15 Tab. Hydrastin Hydrochlor. Bayer, 2 x 4 oz. Iodine Vasogen, 10%, 3 1 oz. Tannalbin, 1 oz. Salophen, 1 oz. Phenocool Mriate, 1 oz. Thiocarbamide, 25 Tabs. Regulin,  $\frac{1}{2}$  oz. Potassium Sozoiodiol, 1 oz. Tumenol Ammon, 1 oz. Ichthalbin, 1 oz. Anthesin, 4 2 oz. Vitogen Antiseptic. Cave, Nevill Street, Southport.

CASH Register (National) for Sale (second-hand); cheap; suitable for any business. Write to F. Gray, 26 Boundaries Road, Balham, S.W. 12.

S HOP Rounds and contents Ointment Jars, Counter Cases, Scales, etc.; small stock; must be sold within the next few days; Premises also; or would let as a going concern; best offer accepted; present occupier 25 years. Apply, 253/3, Office of this Paper.

WE have about 3,000 Quinine Tablets gr. ij. coated, also Easton's Syrup ( $\frac{1}{2}$  or 1 dram coated) for Dispatch; good make; what offers? Apply, 243/23, Office of this Paper.

3 OZ. Phenazone Tabs., 5 gr., 5s. 6d.; 8 oz. Bismuth Subgall, 5s.; 6 gross "One & All" Flower Seeds, asstd. 1916, 10s. all; 9 oz. Menthol, 6s. 6d.; 6 oz. Phenazone Pulp., 20s.; 10 Portia Baby Balances, 7s.; 2 15 gr. Pessary Moulds, 6s. each; 10 x 8" Floating Bath Thermometer, 6s.; 6 x 16" ditto, 4s. 6d.; 6 Copper ditto, Forbes' Special, 7s. 6d.; 2 doz. Celluloid Eye Shades, 4s.; 4 lb. Cera Flav., 7s.; 6 lb. Arrowroot Super. Opt., 4s.; 8 gross Red Earthenware Honey Jars, 6 oz. Fld., 8 gross ditto, 8 oz., 8s. and 9s. gross; Kent's Gas Heat Copper-lined, Wood outside, Drying Oven; Kent's Ice Safe, both 26 x 30 x 25, £4 each; good condition. "B." Chemist, 97 Boro' High Street, S.E. 1.

## PREMISES TO LET.

WATCHET.—Somerset coast; Shop fitted and rounds; house, side entrance, 10 rooms; population 2,000 (Williton, 1 mile, 1,300); nearest opposition 8 miles; large ground-floor Store; small garden at rear; rent £36 p.a. Or will sell. Apply, Hawkins, Chemist, Minehead.

**S**HOP AND PREMISES, WEST END.—Chemists' for many years; vacant at June owing to death of proprietor; good market position; rent £130 on lease; part let off; no premium, no fixtures. Apply, Elliott, Son & Boyton, 6 Vere Street, Oxford Street, W.

## TENDERS.

### CONTRACTS.

**T**HE Guardians of the Poor of the Parish of St. Mary, Islington, invite TENDERS for the SUPPLY of DRUGS AND DRUGGISTS' SUNDRIES for three months from the 1st July, 1917 (inclusive) to the several Institutions of the Guardians in the Parish.

Printed Forms of Tender must be obtained from the Clerk personally, or a stamped addressed brief-size envelope may be sent. Sealed Tenders must be delivered at the undermentioned offices on or before Tuesday, 12th June, 1917, and they will be opened at a meeting of the Guardians on Thursday, the 14th June, 1917. The Guardians do not bind themselves to accept the lowest or any tender.

By Order,  
EDWIN DAVEY, Clerk.

Guardians' Offices.  
St. John's Road, Upper Holloway, N. 19.  
26th May, 1917.

## AGENCIES.

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**A**USTRALIA.—Manufacturers' Representative of recognised standing, with Wholesale and Retail connection throughout Australia and New Zealand, desires to negotiate with British Manufacturers for representation, to commence now or after the war. Bank and other references upon request to 23/2, Office of this Paper.

**I**TALY.—Advertiser, with headquarters in Genoa, but with good business connections in every district of the peninsula, desires to take up the Representation of Manufacturers of Corn Products, Chemicals, Essences, etc. Write 248/22, Office of this Paper.

**I**NFLUENTIAL Indian Agency.—Manager, resident in India and with offices in all important towns, practically controlling the Bombay, Calcutta, and Karachi markets, is desirous of securing agencies for Chemicals, Medicinal Drugs, Fruit Salts, Oils, Patent Medicines, and Drugs of every description; at present representing many of the oldest and largest British Commercial Houses in various lines; if the rates are in order and shipments can be made large orders can be guaranteed immediately. Address inquiries to Box "B," Brockie, Haslam & Co., 23 Fleet Street, London, E.C. 4.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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## RETAIL.

**A**NOACHTS HOSPITAL, MANCHESTER.—Unqualified Assistant Dispenser (lady) required. Apply to the Secretary, stating age, experience, and salary required.

**B**IRMINGHAM.—Good opening for smart, unqualified man, age over 42, in the office of a well-known firm; must have had all-round experience and be well up in prices. "Hazel" (251/1), Office of this Paper.

**E**DITIONAL ASSISTANT.—Applications are invited for the position of Temporary or Permanent Assistant on the Editorial Staff of "The Chemist and Druggist." Experience of the Drug trade essential. Full particulars should be given, especially in regard to age and remuneration expected. Applications, which should be by letter only, should be addressed "M. B." (15/15); 42 Cannon Street, London, E.C. 4.

**B**IRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (251/101), Office of this Paper.

**B**OLTON.—Qualified, for Light Retail; lady or gentleman; permanency, with good prospects; state age, salary; send photo if possible; no Sunday duty. Apply, Charles Crane, Ltd., 235/237 St. Helens Road, Bolton.

**B**OURNEMOUTH.—Wanted immediately, a lady Dispenser for Pharmacy. Send full particulars to Savage, 13 Queen's Road, Bournemouth.

**C**RYSTAL PALACE.—Qualified Manager wanted shortly; ineligible; single-handed; Cash, Dispensing, and Photographic business; short hours, about 56 weekly; no Sunday or holiday duties; no N.H.I. Full particulars to 21 Westow Hill, S.E. 19.

**G**LOUCESTER.—Assistant required; outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

**K**ING'S COLLEGE HOSPITAL, Denmark Hill, S.E.—Locum Tenens Assistant Dispenser wanted, male or female, with Major or Minor qualification; required from July 9th to September 15th inclusive. Apply to E. B. Fairweather, Dispenser, at the Hospital.

**L**ONDON.—Qualified wanted for brisk Counter trade; ineligible for Army; whole day holiday; occasional Sunday evening duty; good salary. Apply personally, or write, stating full particulars and salary required, to Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, E. 2.

**L**ONDON, N.W.—Qualified Assistant wanted for Dispensing Business; free furnished apartments provided; application from lady entreated if mother or lady friend could share the house. Apply P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W. 6.

**L**ONDON, N.W.—Qualified Assistant wanted, man or woman, for evenings and some Sunday duty; free furnished house, and salary according to time given. Apply, 251/18, Office of this Paper.

**L**ONDON, S.E.—Lady Junior Assistant; previous experience Light Retail and Dispensing business. Apply, 250/21, Office of this Paper.

**L**ONDON, S.W.—Unqualified Assistant wanted, ineligible for Army, with fair knowledge of Dispensing; outdoors; no Sunday or holiday duty; good salary to suitable person. Apply, with full particulars, to H. S. Durbin, Pharmaceutical Chemist, Surbiton.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

**L**ONDON, S.W.—Assistant wanted, with good all-round experience, not eligible for the Army. Please state age, experience, references, salary required, and when disengaged (outdoors), to "P. C. A.", 189 Wandsworth Road, S.W.

**L**ONDON, W.—Qualified (Minor) lady Assistant required for first-class West-End Dispensing in old-established Pharmacy. Apply, by letter, giving previous experience, and stating salary (outdoors) required, 251/21, Office of this Paper.

**L**ONDON, WEST END.—Qualified Dispenser required. Apply to the Manager, c/o Cooper, Son & Co., Ltd., 24 Sloane Street, S.W.

**M**AIDSTONE.—Lady Assistant wanted in good-class Family and Dispensing business, chiefly for Front Counter work; lady or gentleman; outdoors. Apply, with fullest particulars and salary required, to Corfe & Son, Chemists, Maidstone.

**M**ALVERN.—Well-educated young lady required for high-class Pharmacy; must be a neat and accurate Dispenser and have had some Counter experience; comfortable and permanent berth. "Malvern" (251/103), Office of this Paper.

**M**ANCHESTER.—Wanted, Assistant, ineligible for military service, for good-class Retail and Dispensing business. Full particulars to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

**M**ANCHESTER.—Young lady required for Chemist's Business; must have some experience with a Chemist; permanency. "Manchester" (251/102), Office of this Paper.

**M**ANCHESTER DISTRICT.—Qualified Locum; may commence at once; state terms and references. Apply, 250/25, Office of this Paper.

**N**OTTINGHAM.—Assistant for suburban Business on busy thoroughfare; good Counterwoman, capable of taking charge occasionally. State terms and references to W. Gill, Pharmacist and Optician, 207 Radford Road, Nottingham.

**N**OTTINGHAM.—Junior or Improver; used to quick Counter trade; easy hours and good salary to suitable applicant; outdoors. Send references, etc., to S. Cook, Pharmacist, 76 Radford Road, Nottingham.

**P**RESTON.—Unqualified Assistant in good-class Dispensing and Light Retail business in centre of the town; no Sunday or night duty. Applicants, who must be men ineligible for the Army, or women, should send full particulars of experience, age, and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

**R**EADING.—Wanted, qualified Assistant for Dispensing and Light General Retail; lady or gentleman, if the latter must be ineligible; indoors. Apply, stating experience, full particulars, and salary required, to F. Tunbridge, 39 Castle Street, Reading.

**R**ICHMOND, SURREY.—Lady Assistant wanted for Counter and Dispensing; good-class Store trade; permanency and no Sunday duties. Apply, personally or by letter, Coppen Bros., Ltd., 12½ Carey Street, Vincent Square, Westminster, S.W.

**R**OTHERHAM.—Wanted, a qualified Assistant for Mixed business; ineligible. References and salary required, Davy, Bridgegate, Rotherham.

**S**TAFFORDSHIRE.—Locum Dispenser, lady, qualified, wanted for Doctor for six weeks from the 4th week in July. Reply, 250/35, Office of this Paper.

**S**TOURBRIDGE.—Wanted, lady Assistant; good-class Dispensing business; easy hours. Carte and all particulars, Simpkins, Pharmacist, Stourbridge.

**U**NIVERSITY COLLEGE HOSPITAL, Gower Street, W.C. 1.—Assistant Dispenser, holding Minor qualification and ineligible for military service, required immediately; salary £145 per annum; hours 9 to 5, Saturdays 9 to 1; additional attendances on two evenings weekly until 9, and every third week on Saturday afternoon and for one hour on Sunday. Apply to C. H. Hampshire, Pharmacist.

**W**EST OF ENGLAND.—Lady Assistant, with Dispensing experience, in good-class Pharmacy; hours 10 to 7; salary £2 10s. per week, or (outdoors) £72 per annum. Apply, 250/400, Office of this Paper.

**W**ESTON-SUPER-MARE.—Qualified and unqualified Assistants for good-class Dispensing business; ineligible for Army or over military age; if married unfurnished rooms provided, please state age, experience, references, salary required, and, if convenient, enclose photo. Lewis Wing, Ltd., Chemists, Weston-super-Mare.

**Y**ORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urbau" (251/100), Office of this Paper.

**A**JUNIOR unqualified Assistant, ineligible for the Army, for Thompson & Capper's Birkenhead Branch. Apply, in first place by letter, enclosing photograph if possible, to Manesty Buildings, College Lane, Liverpool.

**A**SSISTANT wanted; qualified; ineligible or over age; outdoors. Apply Russell Jacks, Pharmaceutical Chemist, 161 Gower Street, W.C. 1.

**B**RANCH Manager wanted at once; must be over military age or ineligible. Apply personally any morning (except Saturday), or write, stating salary required, when disengaged, and enclosing, if possible, recent photograph, Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

**C**APABLE, qualified Chemist required (ineligible) to superintend Private Limited Company; N.H.I. and other Dispensing; brisk Counter trade and assist generally in the conduct of an old-established business where all Galenicals are made and all Proprietaries packed. Apply, "Fifty" (237/34), Office of this Paper.

**C**OMPETENT, reliable Manager for Branch; lady not objected to if used to Retail. Full particulars and salary expected to Bagshaw, Chemist, Newton Heath, Manchester.

**D**ISPENSER-BOOKKEEPER (male or female) to Doctor; small town in Gloucestershire; previous experience preferred and for permanency; hours, 9-11 a.m., 2 p.m., 6-7.30 p.m., Sundays 10-11 a.m., 2 p.m.; salary 30s. a week and small temporary bonus; required June 18. Apply, letter, H. Jenkins, 137 Willesden Lane, London, N.W. 6.

**D**ISPENSING Assistant wanted at once for high-class Business; applications entertained from ladies with business experience; easy hours; no night duty. Apply, stating age, experience, and salary required (outdoors), Giles, Schacht & Co., Clifton, Bristol.

**G**RIMBLE & KENT, Bost'n, require, at once, unqualified outdoor Assistant, lady or ineligible; neat, quick, and accurate Dispenser; capable of serving at Counter in busy Retail; easy hours; Sunday duty nominal. Apply, by letter, giving full details on first application.

**I**NLAND HEALTH RESORT.—Part-time Assistant; from 1.30 to 8, or equivalent; must have had good experience and write well. Apply, 250/40, Office of this Paper.

**J**UNIOR or Improver, age about 20, required for quick Cash business; knowledge of Photography essential; hours 9 a.m. to 8 p.m., except Wednesday 1 p.m., Saturday 9 p.m.; no Sunday duty; opportunities given for studying at technical school. State salary required (outdoors), and give reference to H. M. Tranmer, High Street, Smethwick, Birmingham.

**L**ADY, with good Retail and Dispensing experience, capable of taking entire charge; age, experience, references, and, if convenient, enclose photo. J. R. Cave, Ltd., 52 Nevill Street, Southport.

**L**ADY Dispenser required; outdoors; accurate and fairly quick; one who has had some training in a good-class Pharmacy; a maiden who would have no objection to assist at the Counter and who would be willing to take four hours' duty on alternate Sunday can commence at £2 10s. weekly. Also lady Bookkeeper wanted, with some experience of the Drug trade; salary 25s. weekly; outdoors. Apply, N. Howard Scholar, Tennants' Pharmacy, 29 Sussex Place, South Kensington.

**L**ADY, fully qualified, for Dispensing and Counter work in good-class Business at a South Coast health resort. Apply, stating wages, etc., with photograph if possible, to "Valois" (251/17), Office of this Paper.

**L**ADY Assistant wanted for Chemist's shop in London suburb; excellent opening for capable lady with Dispensing experience; outdoors; no Sunday work; good salary offered. Apply, with particulars as to experience, salary, etc., to "H. M." (251/36), Office of this Paper.

#### FRENCH CHEMISTS.

**L**ES Chimistes et les Pharmaciens Français, résidant ou employés dans le Royaume-Uni, sont priés d'envoyer leur adresse à "French Chemist" (249/25), Office of this Paper.

**M**ANAGER required at once (ineligible) to take full charge; knowledge of Agricultural business essential. Apply, with full particulars, experience, age, references, and salary required, to Allen & Neale, King's Lynn.

**Q**UALIFIED Assistant wanted at once, must be over military age or ineligible, for a good Mixed Country business (not Manager); short hours; half-day. Apply, stating experience, full particulars, and salary required (outdoors, permanency). Exors. of E. Booth, Crewe.

**Q**UALIFIED Manager for Light Retail and Prescribing business; hours easy; no Sunday duty; a little N.I. Dispensing; salary good; assistance given. Apply, B. French & Son, 95 North Street, Gosport.

**Q**UALIFIED Chemist required for June 25; ineligible or over military age; brisk Counter trade. Apply, giving full particulars in first letter, stating salary required, to Oxens, Ltd., Chemists, Newcastle, Staffs.

**S**ALESMAN and Dispenser wanted (unqualified); must be intelligent or over military age. Apply personally any morning (except Saturday), or write, stating salary required, when disengaged, and enclosing, if possible, recent photograph, Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

**S**AVORY & MOORE require 3 lady Assistants with good Dispensing experience and Minor qualification. Apply Manager, 29 Chapel Street, Belgrave Square, London, S.W. 1.

**U**NREGISTERED Manager for London Suburban Business; smart Counterman and Business Fuller; practically a Partnership by means of fixed salary and bonus on profitable sales; comfortable, permanent berth to right man; no Sunday work. Apply, stating definitely age, experience, and salary expected, to 251/29, Office of this Paper.

**W**ANTED, Locum, for about a fortnight during August or September. Apply, stating terms and vacant dates, to "D." (249/31), Office of this Paper.

**W**ANTED, Junior or Improver; lady or gentleman, or unqualified man past military age. Apply, N. N. Armitage, 114 Tong Road, Armley, Leeds.

**W**ANTED, Manager; large country Business; easy hours; no Sunday work. Particulars as to reference and salary to Robinson's Drug Stores, Haverhill, Suffolk.

CANCER HOSPITAL, FULHAM ROAD, LONDON, S.W. 5.

**W**ANTED, an Assistant Dispenser, Apothecaries' Hall and ineligible for military service; hours 9 till 6, Saturdays 9 till 2. Apply, by letter, addressed to G. Westlake, Pharmacist, at the Hospital, stating salary required and enclosing recent testimonials.

**W**ANTED, qualified lady or gentleman as Manager. Salary, references, etc., to H. Knight, 21 Merton Road, Wimbledon, S.W. 19.

**W**ANTED, lady Dispensers, short hours of work, in large West-End House. Apply, stating qualifications, experience, and salary desired (Dispensing only, no serving), to A. J., Army and Navy Stores, Ltd., 105 Victoria Street, S.W. 1.

**W**ANTED, an Assistant (gentleman); outdoors; whole or part time. W. F. Pasmore, 320 Regent Street, W. 1.

**Y**OUNG lady Dispenser required; one with Counter experience preferred; must have the Apothecaries' Hall qualification. If convenient, apply personally any morning (except Saturday), Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

**Y**OUNG lady Assistant; with some knowledge of Dispensing preferred; outdoors. Write, with full particulars and salary required, to W. Bell, Leverett & Frye, Ltd., North Finchley, N. 12.

## WHOLESALE.

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**A** LABORATORY Assistant is required by firm of Wholesale Chemists manufacturing Specialities; ineligible. State age, wages expected, experience, etc., to "Tragacanth" (45/270), Office of this Paper.

**A**SSISTANT required for Chemical Apparatus business; ineligible; Minor qualification not necessary; accustomed to management and willing to travel if necessary; must have good knowledge of trade in Laboratory Supplies; progressive salary to suitable man. Finlayson, 141 High Street, Stockton-on-Tees.

**C**OMPETENT men wanted for Wet-room and Dry-room Counters; previous experience and satisfactory references essential; ineligible for military service. Apply, stating age, experience, and wages required, R. A. Cripps & Son, Manufacturing Pharmacists, Howe.

**F**OREMAN Goods Receiver in City Wholesale Drug Warehouse; permanency and good wages for suitable man. Apply, giving full particulars of past experience, with age, to 253/5, Office of this Paper.

**L**ADY Assistant wanted to help with Dispensing and the Manufacture of Galenicals, etc., by firm of Pharmaceutical Chemists in the Midlands; state experience and salary required. "Dispensing" (250/35), Office of this Paper.

**H**EAD of Workroom required to superintend the packing of Perfumes and Medicines and the getting up of Orders; must be accustomed to first-class work; hours of business from 9 a.m. to 6 p.m., Saturday one o'clock. Apply, 43/37, Office of this Paper.

**L**ABORATORY Assistant wanted at once; experienced making Toilet Preparations for well-known proprietaries; London; state experience and salary required. Apply, 44/21, Office of this Paper.

**R**EPRESENTATIVES, experienced and qualified, required for local and Yorkshire grounds. Apply, with references and full particulars, stating ground covered and salary required, to Goodall, Backhouse & Co., Leeds.

**R**EQUIRED at once, man, free from military duties, to take charge of Bottle Department in a City Wholesale Druggists and to receive empties; previous experience absolutely essential and good references. Apply, by letter, giving full particulars and salary required, to 45/13, Office of this Paper.

**S**ALES and Advertising Manager, skilled in pushing high-class Proprietary Medicines, wanted at once by London firm of Wholesale Chemists; knowledge of Therapeutics desirable, and a qualified man preferred; must be ineligible; permanent position. Apply, giving age, experience, and salary required, to "Oleum" (45/27), Office of this Paper.

**W**HOLESALE Chemists require Foreman Packer; good wages to right man. Full particulars to 250/4, Office of this Paper.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

**3s. 6d.** for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

**C**HINA.—One or two thoroughly competent Assistants (ineligible for military service); age 21-30; must have had good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address, "China" (249/35), Office of this Paper.

## SITUATIONS WANTED.

**1s.** for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

### [HOME.]

### RETAIL.

**A**GED 34; experienced Prescribing, Dispensing, Counter, Photographic; highly recommended by present employers, a world-famed London and Continental firm; totally exempt; active, healthy; £4 weekly; temporary or permanent. "Adjutor," 3 Trevor Square, S.W.

**A**FULLY-QUALIFIED lady Dispenser, well educated, good experience, seeks post with Chemist or Doctor. Apply, 251/37, Office of this Paper.

**A**S Hospital or Institution Attendant; can Dispense; willing to assist generally; aged 45; temperate, reliable; disengaged. "F." 106 Liverpool Road, Barnsbury, N.

**A**S Locum, Manager; qualified; 45; varied experience; £5, fares. Apply, 250/37, Office of this Paper.

**A**SSISTANT; ineligible; unqualified; age 31; disengaged; capable; London preferred. Apply, 253/13, Office of this Paper.

**B**RANCH Manager or Locum; ex-sergeant; C 3; age 38; 16 years' varied experience; good references; unqualified. "Phenazonum," 33 Crosby Road, Birkdale, Southport.

**C**HEMIST, 42, requires situation as Manager with a view to succession; Tyneside district. Apply, 250/30, Office of this Paper.

**D**ISENGAGED June 2nd; Locum; permanency; age 47; London and Provincial experience. "Chemist," 14 Sutherland Place, Bayswater, W. 2.

**EVENING WORK.**—West-End experience; Dispensing or Counter; over military age; West or South-West district preferred. "Cicfa" (249/40), Office of this Paper.

**E**XEMPT; qualified; first-class Dispensing, Counter, and Hospital experience. Apply, 248/36, Office of this Paper.

**E**XPERIENCED Locum; elderly; light engagement; country; abstainer; excellent references; unregistered. "Prompt," 19 Chapel Street, Uxbridge.

**E**XPERIENCED and capable Assistant, rejected, 30, tall, requires post in quick Retail business; London or Provinces; good Dispenser and Counterman. "Energetic," 29 Dartmouth Gardens, Milford Haven.

**H**OSPITAL Dispenser, Locum; qualified. T. Irving, 66 Rowfant Road, Balham.

**L**ADY, disengaged, wishes situation with Chemist, to help with Stock and at the Counter; had a little experience; London area or near London. Apply, 248/35, Office of this Paper.

**L**ADY Dispenser (Hall) seeks situation; Doctor or Institution; one year's experience; Book-keeping, perfect French, First Aid, nursing certificates. Bailey, 53 Leinster Square, W. 2.

**L**ADY Dispenser, partly qualified, seeks temporary post for August. Chappel, College, Worcester.

**L**ADY, 19, experienced, Counter and N.H.I. Dispensing, desires post London; would entertain Clerk in Wholesale. Elliott, 163 Camden Road, N.W.

**L**ADY Dispenser (Hall) requires post; Hospital or Institution preferred; experienced. Apply, 250/7, Office of this Paper.

**L**OQUIM.—Lady Dispenser (Hall qualification), some experience, good references, disengaged; Doctor or Institution preferred. Apply, 249/36, Office of this Paper.

**L**OQUIM or otherwise; experienced; over military age; unqualified. Apply, 246/25, Office of this Paper.

**L**OQUIM; over 30 years' wide experience; vacancies July onwards. Smith, Chemist, 21 Plantation Street, Cloughfold, Manchester.

**L**OQUIM or Part-time Assistant; unqualified; ineligible; no Saturdays; Manchester or district. H. Smith, 364 Great Cheadle Street, Higher Broughton, Manchester.

**L**OQUIM; qualified lady; 29; 10 years' experience Dispensing, Counter, Bookkeeping, French; seaside preferred. Apply, 251/16, Office of this Paper.

**L**OQUIM, five years' Hospital experience, disengaged July; London district only; 2½ guineas. Mrs. Smith, 4 West Kensington Mansions, W. 14.

**L**OQUIM-MANAGER, disengaged 15th; Major; 50; experienced. "R.", The Pharmacy, Yelverton, Devon.

**M**ANAGER; qualified; 46; first-class references and experience; West End and suburban; good salary required. Reply, Charles, 51 Deauville Road, Clapham Park, S.W.

**P**ART TIME, Thursdays and Sundays; 25 years' experience; competent all branches. 45/38, Office of this Paper.

**Q**UALIFIED; rejected; Optics, Photography; wide experience; good-class business only. "Hyperopia" (250/36), Office of this Paper.

**Q**UALIFIED; 43; disengaged; first-class experience. Williams, 3a Little Sussex Place, Hyde Park.

**T**EMPORARY or permanency; disengaged June 16th; 46; competent, reliable; excellent reference; qualified. Apply, 250/24, Office of this Paper.

**T**EMPORARY Assistant or otherwise, age 48, disengaged June 10th; Town or Country. "Jesmond," 37 Upper Kennington Lane, London, S.E.

**U**NQUALIFIED; age 41; exempt; married; good Dispenser and Counterman; vacant shortly; London only; West-End experience. "Aspirin" (250/2), Office of this Paper.

**W**ANTED, post as Assistant Dispenser by young lady at the end of July. P. Moxon, Rous Villa, Newmarket.

**Y**OUNG Lady, 16, slight knowledge of the Business (Chemist's daughter), as Improver. "Doris" (249/21), Office of this Paper.

## WHOLESALE.

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**A**S Representative wholly or with indoor work; live man; 41; exempted. "Statim," 50 South Park Parade, Ilford, Seven Kings.

**A**S Town, Suburban Representative to important House; 13 years' connection with Drug trade; age 30; military discharged. Apply, 45/34, Office of this Paper.

**M**AN, energetic, to take charge of growing Manufacturing Business; good all round; London or near. Apply, 251/11, Office of this Paper.

**T**RAVELLER, with splendid connection, calling on Drysalters, Chemists, etc., is open to sell good Side-line on commission. Apply, 249/22, Office of this Paper.

**T**RAVELLER; ineligible; Chemists, United Kingdom; Proprietaries, Foods, Toilet Articles, Medical Lozenges, Disinfectants; references. Apply, 251/23, Office of this Paper.

## MISCELLANEOUS.

**M**CADAM & TUCKNICKS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Sale (free of commission, subject)—35 Borax Def., 36s. 7½d.; 50 Lewis & Burrows Pref., 13s. 10½d.; 50 Idris A Pref., 4s.; 91 Ord., 1s.; 50 Parke's Drug Ord., 9s. 10½d.; 40 Pref., 14s. 6d.; 140 Watford Mfg. Pref., 10s. 1½d.; 500 British Oil Cake Ord., 27s. (dividend last year 15%); 1,000 International Plasmon Pref., 16s. 6d.; 60 Bryant & May Ord., 36s. 4½d.

Wanted (subject)—300 Allenbury Pref., 18s. 5d. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

**E**EMPTY CASES.—Manufacturers sending Packet Goods frequently from Glasgow to London warehouses for repacking wish to make arrangement with London Manufacturer as to utilisation of empty cases in reverse direction; scented articles unsuitable. Write "X. Y. Z." (246/35), Office of this Paper.

**S**econd-hand Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition: we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

**S**HOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesmen, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

**HIGH PRICES FOR CAMERAS**

Original Cost Price for Vest Pocket Kodaks, R.R.-Lens, and Watch Pocket Carbines. Terms as for Single Model. Dealers' Stocks, Publishers, &c. We reply promptly and courteously and goods are returned at once, CARRIAGE PAID, if no business is done. WATSONS, 84 High St., Sheffield.

## Developing. Printing. Enlarging

Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d. Prints and Postcards up to and including 5×4, 1d. ea.

ENLARGEMENTS. LIST FREE.  
Prompt dispatch. Trade discount, 25 per cent.  
Postage extra.

**MARTIN, Chemist, SOUTHAMPTON.**

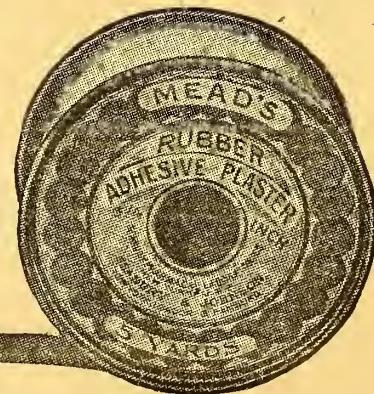
# MEAD'S RUBBER ADHESIVE PLASTER.

**M**EAD'S PLASTER, the original rubber adhesive plaster, is made at the SEABURY PHARMACAL LABORATORIES. Throughout the world it is preferred by Surgeons, Hospitals and Governments.

**C** Under all climatic conditions it retains its remarkable adhesive qualities longer than other plasters. **C** The adhesive is non-irritating. The material, on which the plaster is spread is more pliable, and stronger, than in other plasters, the pliability enabling it to conform more perfectly to the surface to which it is applied, and the

strength of the material enabling it to withstand, without stretching, the strain of dressing fractures, &c. **C** Méad's Plaster is issued by the Seabury Pharmacal Laboratories in various widths, from  $\frac{1}{4}$  in. to 4 ins., on spools of 10 yards or 5 yards, a portable and convenient form for surgeons, or for first aid cases; and in rolls for hospital and surgery use.

**M**EAD'S PLASTER requires neither heat nor moisture, the ordinary temperature of the body ensuring firm adhesion.



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Great Britain & Colonies : FASSETT & JOHNSON, Ltd.,  
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Telephone: HOLBORN 6383 (3 lines). Telegrams: "PLASTERS, SMITH, LONDON."

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CLEAR BLUE TINTED, plain or graduated.		Lowest Market Prices Charged.
3 and 4 ounce.	6 and 8 ounce.	
12 ounce.		
WHITE PHIALS, plain or teaspoons.		
1/2 ounce.	1/2 ounce.	
1 "	2 "	
BLUE LOTION BOTTLES, all sizes.		
CORKS. Superior quality. No advance in price.		
6 and 8 ounce	1s. per gross, in 6 gross bags.	
Vials	10d. per gross, in 3 gross bags.	
F Delivered free within 7 miles, and to certain stations. Particulars on application.		

**I. ISAACS & CO., Glass Bottle Manufacturers,**  
106 Midland Road, St. Pancras, London, N.W.1,  
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7 New Inn Yard, Tottenham Court Road, London, W.1.  
Orders sent to either establishment have attention.  
Established 100 years.

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SHOULD STOCK

**ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.  
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2d.; Boxes of 13 Packets 1/2.  
Order through your Wholesale Drug House.  
D. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.  
Wholesale Prices on Application.

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number.  
No advertisement inserted for less than 6d.

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## FOR DISPOSAL.

### BOOKS AND PERIODICALS.

OFFERED, "Year Book of Pharmacy," 1874 to date; condition as new, with index. "Bryn" (250/8), Office of this Paper.

### WANTED.

WANTED, Otto of Rose. Apply, 34/36.

WANTED, Mortar, composition or marble, diameter 15 to 14 in. Price, carriage forward, to Hitchen, Chemist, Uxbridge.

BLOCK Liquorice wanted; not in sticks. Apply, 233/24, Office of this Paper.

SACCHARIN wanted; state quantity, quality, and lowest price. Walton, Chemist, Batley Carr.

JOTHION, Bayer, wanted; state quantity and price. Dwyer, Chemist, Ballsbridge, Dublin.

NATIONAL Cash Register wanted, with autographic slip, up to £2. Whysall & Son, Grantham.

WANTED, "D" Sparklet Bulbs; state quantity and price. Ballingall, 449 Great Western Road, Glasgow.

BOXES wanted; small cardboard Boxes, 1,000 gross. For samples apply to the "Kraske" Co., Ltd., 7 Blenheim Street, W.

REQUIRED, 1 lb. Chinosol Powder. State price to Box 351, o/o Hooper & Batty, Ltd., 15 Walbrook, E.C.4.

IRON Somatose in tins. Newholme, 27 High Street, Sheffield.

WANTED, Saccharine Tablets, Pot. Iodid, Pot. Brom. Cash or exchange, Phenacetin Tablets, Pot. Chlor. Tablets. Callam, Chemist, East Dulwich.

MIXING Machine for vanishing cream, electrically driven, capacity 8 to 20 gallon, wanted at once. Particulars, Edward's Harlene Co., 20/26 Lambeth Conduit Street, W.C.

WANTED, Glass Bottles, white, 2 to 4 oz., screw caps preferred though not essential. Also Tins for boot polishes, liquid metal polish, and health salts, etc. Samples and prices, "Brytenup" Polish Works, Preston.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

## Military Tribunals' Decisions.

The following cases have been decided since our last report:

ABERDEEN.—Three months' exemption was granted to Peter Murray, with Wm. Paterson & Sons, manufacturing chemists.

BRADFORD.—A large number of qualified chemists appeared before the local Tribunal last week, and the general result was exemption to October 1.

BRAINTREE.—Conditional exemption was granted to Mr. C. B. Saunders, dispensing chemist.

DROITWICH.—Postponement until July 31, subject to substitution, was granted to Percy C. Harris, son of Mr. Stephen Harris, dispensing chemist.

FOLKESTONE.—Conditional exemption was continued to Mr. Knight, with Boots, Ltd.

LANCASTER.—Conditional exemption is to be continued to Mr. W. W. Moses, chemist and druggist, manager with Boots, Ltd.

LITTLEBOROUGH.—Conditional exemption was given to Mr. G. H. Cockcroft, dispensing chemist.

MALVERN.—The appeal was refused of Mr. C. H. Derbyshire, Ph.C., Victoria Pharmacy, Malvern Link.

MANCHESTER.—At the Appeal Tribunal, further exemption was refused to Mr. F. G. Boden, dispensing chemist, Mossley. He is required to report on June 15.

MANSFIELD.—The application of the Military Representative for a review of the exemption granted to Mr. Henry Knape, Ph.C., with Boots, Ltd., was adjourned.

MILFORD HAVEN.—The case of R. J. S. Elder, apprentice to Mr. J. H. Llewellyn, dispensing chemist, was adjourned to June 30, owing to the illness of Mr. Llewellyn.

MORECAMBE.—Exemption until August 31 was granted to Mr. W. P. Knowles, son of Mr. R. Knowles, dispensing chemist, and also to Mr. N. M. Lund, dispenser to Mr. N. Whitehead, Ph.C.

OXFORD.—A further two months' conditional exemption was granted to Mr. Stanley H. Clegg, dispensing chemist.

PLYMOUTH.—During the hearing of a case in which the Timothy White Co., Ltd., was concerned, it was stated on behalf of the substitution officer that he had experienced great pleasure in dealing with this company because they had tried their very best to adapt the substitutes recommended. If other firms would follow their example in this manner they would get along very much faster.

ROCHDALE.—Exemption was refused to Mr. R. Atkinson Oddy, analytical chemist, but his father (Alderman Oddy) intimated his intention of appealing. Exemption until July 31 was granted to Mr. W. Whitehead and Mr. A. Goodhew, manufacturing chemists.

ST. NEOTS.—Exemption until July 1 was given to Sidney Jackson with Mr. Jas. Wise, dispensing chemist.

SHOREDITCH.—Four months' exemption was given to W. Fuller, with Christopher Wheeler, manufacturing chemist.

Six months' conditional exemption was granted to J. E. Houseman, who has two pharmacies, at each of which there is a qualified chemist. Four months' exemption was granted to H. J. Edwards and H. J. Corrick, and one month, final, to E. Hyams, employed by Sharpe & Co., drug-exporters, Eldon Street, E.C.

SOUTHWARK.—The Tribunal, on the application of the Military Representative, considered the case of Mr. Thos. Whales, dispensing chemist, 41 London Road, S.E., and referred him to the Special Medical Board for another medical examination.

SUTTON-IN-ASHFIELD.—One month's exemption was given to Edward Limb, chemist's assistant. Three months' exemption was given to Mr. J. J. B. Stanley, dispensing chemist.

TAUNTON.—Exemption until August 1 was granted to J. D. Carlyle, assistant with Mr. J. Boyd, dispensing chemist.

WARMINGSTER.—One month's exemption was granted to Arthur Waite, with Mr. Frank Cook, dispensing chemist.

WOKING.—Three months' exemption was granted to Mr. E. D. Lewis, chemist and druggist, manager for the Timothy White Co., Ltd.

WORTHING.—The Military Representative mentioned, with reference to the chemists' claims for exemption, that he had met the West Sussex Insurance Committee with a representative of the National Health Insurance Commissioners, and it had been agreed to call the chemists together with a view of arranging among themselves what men could be spared for the Army while at the same time maintaining the businesses. He hoped, in regard to Worthing, they would be able to come to terms. The suggestion was that an exempted dispenser might assist another chemist, and so release one of his men. The cases of several chemists in the list were therefore adjourned.

# Thomas Morson & Son

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ESTABLISHED 1821.

MANUFACTURERS OF  
MEDICINAL AND  
FINE CHEMICALS  
FOR  
GOVERNMENT  
CONTRACTORS  
AND  
MUNITION FACTORIES.

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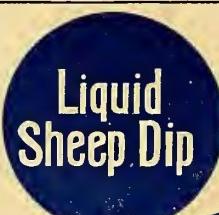
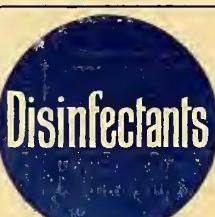
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In Bulk, 1/2 lb.; W. Qts. 11d. lb.

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